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## A MONTHLY RECORD OF ANTHROPOLOBICAL SEIENGE.

XIX.

## MAN

## A MONTHLY RECORD OF ANTHROPOLOBICAL SCIENCE.

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## N. $B_{4}-$ Plaraquasht, unless ieflerovise atatel.



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## A MONTHLY RECORD OF ANTHROPOLOGIOAL SOIENCE:

## PUBLISHED UNDER THE DIRECTION OF THE <br> ROVAL ANTHROPOLORICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,

 anthors, nuel the Cownoll of the Theritute desires it to be waderitaod that in glving

 pagea moah, primted in aingle noluman ; buntaining "Originat Andisles" aved tubitantal

N.B. - Aptinles published in May phould be guoted by the your and the
 begive on page 6 should be quotid at Max, 1919. 3 .

## ORIGINAL ARTICLES. With Platid A.

West Indies: Arahnolory,
Joyoe.
Note an a Wooden Bteol from the lsiand of Kleuthera, Bahamas. By C1 A. Jeyec, M.A.

The Beoompanylag plate gifes kwe viewn at as interentige Wooden stool resendy

 in quailriateral in outline, तithe romiled aonient, has a
 short logh, evat to sedtion, ind disponed fymmatricily, From sue of tbe plocrige sadee of the seat projeote a kitah, Whidel liad heen bifred to ropreseni a grotesique homai ligad. of whiloh the oyon and wouth have avidenily of sums time been amphatized by inlay, probably of nbell (see Fige). Tha styld of the garving is annistukably Weat Indian, and it in ahrious that ste staol is the iovth of some braveh of the sertion of the two native stociss, the ao-ealleil Tainan, who werd foumi in oconpation of the laliads as fhe Hime of the Diseorery, The partieniar island to whilh the spectmen


Castisa of catesqua
 belonge ir fudicateil ly an Insuription, earved on the nuderside of the sent, whiph pithe ns follows :-
${ }^{14}$ This atool Wha found is a Cave in tho Islanel of Elentbern, Babaman, shont the year 1820 by Jmpos Thampson, a Slaves nasd purchased of Lim Ly Thans. Pugh Wes. 3 C aby, is I580, It is suppored to be sither a piece of the domestic furnifura of the Iodiane of one of thele Gods It la at lenad 300 yonrs old. $18500^{\text {n }}$

At the time of the Diacovery, the Wuat Indien were peopleil liy two native sbocke, (a) the Tainan, s people of Arawak affinities, who were in porsesaion ot the Groabs Antillea and the Bahamas, and (b) tha Carib, who had spromed Frow thed santbera oontineat, posupying gradzally tho Leeser Antillos, and lowid aven gaineal it foating of the eastern ond of Poeto Rico.
 from tha Buhatina sre axceedingly pare.

The wooden atoole, enllal Dalin, usad by the Thinnin aborigines, were of sunse
 one of tha diathgeifeling marbo of Imporiant mea. Hogvired goesta wave providisl

 the pasange recountiag the expedision ta "seats made of cop pieces, in atrauge diapmen,


 (tad similas la faet to the spealmen under discusito if the posterlor portion of sha


 " Those objects, oconialing of smath nupparinil an fane shari simopy laike posiumilly "roprespated animals, aud a bead whi carral at the npper or lower viel. Thi "fortiegi oftee had deprasions to tha standemen lo which may heve luma lameried





 " bow bigh itbey ward ustremed. ${ }^{\text {" }}$



 laighly inapordant addition to the colleation, partiontarly in Vhaw of the axtreme early of abjecen from the Bahbimas.
T. A. JOXOK

## Liggulstios,

 Gardinex.The foilowing paragrighes are uxtrustesl, with oortale medifipations, from a lettor addrosped to Dr. B. Malinowtki in New Grisea. Oar corrospondence on snientific topies had led to nome dinonsaton of jugguiatio questions, and las 'sugigestol the beopesty of treatiag thention methods different from those omployed in the ordiany handhooke on Langage. Moanwhile, dey own researclian in Egyptha grammer had brought me to griph vith the fundsmeutal and perplextigg prediemil of "mabjeet," "predioste," woed-order, tenise, and the lite ; dt is a regrettabld teot thes Figyptologlata have but the laselest botinn its to what the term "preciente" mesuis, or ought to be modo io mean, nad seime exmesiont into Somitic sad Iudo-Germinie philology suggest thist the ntailants to thase fields are in no better anse. Deaniliary misiliation

[^0]on this and kinited problems requited in the remarka leere set down. I ehoald not

 utimost stora, noil rian considered flat thay might prove atimalating to somas oue among than who, in this now hegianing of thicgs, are casting abont for a protuisink object of etody :-
"I mies try to expreas to you me ritwa alout a fallacy which I believe to be latent in the outlook of most philologista, mamaly, that Langunge is nothing more flana a oost of ostomsined raplica of Thoaghs; ma thas if one onold tanslyse the memolig of sil words and 'discover ' their 'trns' imporh oile wotld bave os slafficivar ausouns of the mind of mad. Bermann Pal tallen of the payolsological anolysia of a bentence, ${ }^{\text {a }}$ and employs the torm 'psyshologlobl predionte.' Max Millsp mble, in
 dangoruna, anit 10 Ignoite and ovarlook the Essensial Eliarsater and parpone of Languege, whloh is to sarve es a tcesse of commapinatlou betyens mase aud mse,
 shat thay are page luntrmequa, and to treat them as tbe acrual milud of mant.


 ' Tho mind af'a listener by mand of arbitulate andible sownds Aaning an oergpted
 eonanquenen arislig trom tais thot that a apealese playe a double rolle, that lat



HNaw all the variety and courplexily of Jugnage deripy from tho faut thet the mentalitles of apebleur and liatanar on tbe romerate of apeenh are diffareat. If if this difforenem that nukian liug
 rasceif sowneds it for the soumos velfard in an Llentisil tanases, language would

 differeage betroen a thing obsarved nad ita rolloetion in an mirfor (rytat fo some by $X$ an dextral sppentang ta $X$ as sinistral), wosde are equally lisie pexded: my
 shonth oat them. The asumity for languagu arisas oply thare wase reuteol ariculstion is indiepoctible. This seame to hold good protey gonarifly a aven the

[^1]writer of novela nims at pecting his readers into his own frame of mind with regard to the mattar, neootional or presentational, of lifs dikeoarsa; bven the diary-writer oonogiven of the future self for whan be writes as of as being who will to nome dogrea have loat toulh with bie presput, experiast self. Converation is a saries of movenants by which one siod benka in make progress in co-operation with anothor by alterantaly imposing ita awa stondpeint with regand to the matter in hand, find modifying it in the light of the standpoint it has seement fo the mind of cha litetloentor; eocrerantion teases when the prigivally somewhs differently attinest minds find iberssplves, at regards the topic dinenasod, it harmony with ase pnother, or कhen such harznony la recogoised as unatasinable.
"The actual poist upen wbich X wishes to inflienoe the mind of $X$ is what for eilleel the 'prediante ${ }^{\text {1" }}$ (the 'pryobological predicate' of vois der Gabelasity). Thif io the andy sbeolutely easontial alement in langage, oarreiponiling to ue eveat or modifistion (whether dio to onter or so huier stimulus, whethar arlaing from ehanges Io the pbyeleal or ln the payohinal anvirsament) to the milad of the speckel, whlah paeses lim to desine of ogrvaponding hut reveraed (your plulatral to way ilextiod)

 relabion of thlago fataresting brons the polat of vinw of the apeaker's immediate velfare (E.g., 'swet ' ite appileil to a fruit), but socondarily rpforcing, is uso, is su puexpersed ateject sowowhere is the bookground of wajoh the rolatien in quastion was proilcateil. The baran 'prodicata' is hares, of eosione, employed in in wery wido


"On thin vjow the nubject is a sueopdarly developed alopent mervig maruly to


 If that seeme to ade the proper oourta, if I requite e0-operatlon, hawgyor, my
 elose at land and with bis wis aboat bitn will meata, bud to fintended so meno.

 to mey ernodehilidres (II I Bink it worth whin to recount to shem the foodeat), I aball say, 'I obunced to he looking ate of tha wifodow of the hoves whers I wae ' livigg at fast time, namely, No. 6, Duke Street, and to my liotror 1 saw thas the ' house opposita, No. T, wai of fre.' In sit thene base the speskec in the name,
 the samo. And yef the oxprestinn differh wildely lis auch nanh. Thas plsurdity of learving out the lintanar is abrions, and betonees more no when wat rafloct that in languge generally it is tia relation of the litieoer to the spanker at the momens of apeesh which gives the diffurestinting foron to the sebtence amployed: wheo I
 une an imperative f, when I deny, I sagume my Interlocutor to harif sflimed ; when I volee a wheh I appeal for mympatby.
"Azstaning thent pou ngree with all this, it will mobably neem to you thas she atenilpolat hese adopted is very commonplace: yet I can asaired you thins, no fur ta try reading gree, it hay selved Nomoat all who have mritten upon the subjeot if Langlage. Langaigo is nenally regeribed as utuehow a translasion of the immer life

[^2]two thinge being completely lost aight of : (1) That the inner life la an uncensing sdaptation to environment, and (2) that in so fas as thite adaptatios nau take place withont recourse to othors, lenguage does not ogeur.* Langosgens as I wiali to bee is athilied, ill a sooisiogical kactor macparable hoth from the enviromant whioh givee it Impulae, and from the listenes whe demanatutas, by uetion of by verhal responad its uractiosl usility; it is a mechanime for the cammanisation of shought, mot a duplienta, or kind of sang of it.
"I omit all reforence to the fant that Lasgunge is s mosi potent fretor te astinh thinkieg, thas, Jislesi, there bas buen a musstant pestion and ranction betwoen Lans guage and Thought whifeh renders the quastlon of priacity between them nugatory,
"Yon will find that Hermana Pail gives the mont ridiculous defnitions of salbjeat and prediontes and yet his undepiably imporianh and atimalatiog book an that Priesiplon of Langaage in widely regariou as the atasdard work on the sabljeet. For Paut 'the Dayobological aubjeat it that presentationsl ammplat which is Inst oxintent I In the mind of the epaaker of thilkor, and to whipha seeonil prenentationul sosenplos,
 the opiler, 'The lion-roars !'
"No attention seems to be given by witern to muther nesentlint diffarnace batwnes Languge and Thought. I pofer to the font thac, sinee we kinnot walk in





"Tha poiss on writch the payobologisal lnterest is fooused in tbas givan simaltancously (or may ba given simaltanonaly, for athat bases aro oasily imaginoi) with the poinc loft, if I may so Hey, in ahador. If now I wida lor any mason io osil the noites of soyome slan to the segur plasennanses, and if bid attention be so dtatencted and detenhed that 1 mosi bring the whote piresentation before bim,
 of axpinnsion ser open to ma, a fast that sgolit shown that Legrouge doas nomee thing mare thus meroly th masulato a parsauis thonghe I may ay 'Tha liow roers' "ith lovet jefonerton, lasving it ko the hearer to devide whestent I wish him

 lion roarn' there latige in tho fotmor nase a disenepancy betwsets. reat and granmastional predicaie. Or agnin, I may keep real predivate lif barmony whit grasmatical

[^3]preallonta by in paraplarase: (a) 'If ta the liou tant is roartilg;' (b) 'What the tion ' is dioieg Is to ruar.' Sappose the listenar to be in close sympathy with the spenker, the worke 'The lion,' of 'He roare,' will often suftics. In preaence of the lienat fiseit an intarchange of glatans hetween the funterk will be enougb+ of haleed aven lase than this,
"It seems clear, then, that speesh is a mush niore complicatel thing thas mare thonght. Belldes theg centent of the sthsamset, eummad, question, wish, negnatian, maxim, epignim, or carre that is expressed, thare is always layolvad an unoxpressed relation to a listemer, which, by a aurious parradox, is in practioe the dooisive fiutor in daterminiag what wonds are notnally masd nad the orler in whieh thay aro arraiged." Nor mast is be forgotten that Lampuage is used for donconlug or distorting theught (bs in lying and bunsting) lanilly leas than for revenling it.
"I fancy that sho rafiationi in weribendor formd in differsat langangen ung doe lees to bay deop prychologinat ransm tonnacted with the smbjoes-matter, than
 sopeearily come luetam the obler. Somo leagnagon plamp for +Tko Mon ronrs, others for 'Roirg the lioh,' when 'roant' In teal prellicate."t

ALAN H GARDINFR.

## England: Archabology,

Moir.
Two Lato Bronxo Age Urns from East Angila. By J. Reid Mol. The two Late Bronat Age trus to whilh thls sète relers sume fuand

 foasd af Brastham, near Manalagiree, and pensaind to the Britioli Masenm In 1814, by ME. J. R. Krebie, of Brasham Hall. The are wan found at a dopta of

 the lpowioh Museum, and was fouind at $n$ depth of -3 fees trues the gerthee of the
 miang gravel. In oue of my periodial vales the fais exnoyation the workoman
 had baee foind. It was etnet that a digglog lasd bens onsin to the old rivor-grivel at this spot, whiel is at the botom of the malo valley, shit, in clase prosimity to the canalisad River Glypiag. The soblent exesvation ven, if the time of the ditnovary, still plainly velefble to the atratified river deppoli. The uro containod a
 fragments whioh lavy been dideatifiod by Profesaor Keith is caleiBed bumse bones.

[^4]It in thas clear that the Ipowinh ppecimen may be regarded as is dinerary yrn, mid it seems probahle that the Brastham example hail so similar use So for ae en be gatbered, "anif of this partioalse form and ornstantation aro net gommon th this councry, bar Mr. Regiaald Swifh infarsis me inf a letter that a apeeimen of vory siailar apponranoe to those bere deserilod, but differing from tham in lairug an



 montin, the lip if If his thiok, and the moulding of hnod projeess to the extest of


Tig. 1.


Y10. 2.
 N05:34.
 the pbatograple of the urn found nebr Hacloige Itoush J. KESD MOIR.

## Linguistios,

Notes on Pokomohi (Guatemata). By A. C. Bretom,
The following extiacis are tronshaied litenaliy from the Spasish-Latio and 4 Hokomohi mausteripe vocabulary of the sevententh cantary to the maseum libnery of the Ubiveisiby is Peansplvanis as Philadalplia. Abont 300 Latis slverba, pre-
 a fatr-apeeiman, though some others have move placase from tbe Viligats, of ton with two ot there vernions is Pokomichi. There are 270 Pokotschi vbrbe in the genersi voeblulary und iti tbe nectiou ou Pokomohi nouas, alao equivaleve (n Pokomichi for 260 Spunish verber Herewith ls a uxall portipe of as Abetract whiah I have eondonaed from the varber

Alshoggh the manaseriph is only a fragmant of the orfginul warks, it will be stem how muoh valuable information ath lie obtained from it, repreaenting na it does bibe earileat Form of this languga lnpwn to the Spanish misaionaries, Thu prigst-author ounstantly quoten from the writinge of Padre Francigco de Visas, who diod in 1600 , asd the focument is an sutogrspb, carefolly writen, but with the
syllablee often separated, an usual at that puricd. Careful stady enables the Pokomehi words to come out sorreetly, hust it in diffoalt to judge whether the varions proeouns and particies ahoold be joised to the worda thoy qualify of be kept separste. Gupe in the menuseript prevent fall stady, but Fith 290 elosely-writton pages, something and be learat of thls almost unknowa ladguge.

The pherews given in the astenits show the method of somponition, which is very differnot frome that of Mayn, with whleh I'okotneht was supposed io be afflintad, There are worde in sosmon bot there are inore difforeneas. The land donble e $(d)^{2}$ manally geenn at the ond of a vorth. It is wsed. rather arbitrarlly by the suthor

## 1. The Lamp Itista in Poicozocien.

 (e) at the same time, equally, in the same maneet. All shese different ineaninga is Latre can be kindared in Pakomebi:

Ambislana Jenus jaxis mere Gallem.

Telding bla tray Jemui along the odge of bis Lake [of] the Gelleet.

A bilind aser elainotred by the way, ne at the selge of the way,
Na rai ailcomin mayugeh ofi ohi dos
Ia anom banei alde abi will not sary miath ant
Iuxts dotonm manm buhet pusa Petrus.
(1) Cocklid mes pelt Jodre ohi wh hel pot.
(e) Wa naht poe wn pust allio res pat Prdro.

"Not far " Ir alan ubel tor night "Bethany wai nigh ontè Jernaalors" $=$ ma matht wlic formulg rve Jersolem.
"Nigh in the day of the Lard" nus beva neveral verslous a (a) whal elalee (b) mislie chatoe, (b) ma nahi chatoc wilier rue quilh nineatwal.



 nit evibal Aif animi. "Aovarding to the traditions of our clders " ( $a\rangle$ He noe cornh estentagne ca man oadaw, (b) he nahtit teA nadesp sabali,)
 the pasit"



The inzia may be gulted in phorank thest do not require it, ph f "Tboy walk "not noonding to my lews" an ba rendgeed "Thay follow not my laws" (Mas ngui tagned mu mahal nu ertlal sorik).

Adolescens iextn viem suam stiam eum bebueril.
Ho pie banoh ru do aeNn oli rabrel ke no rw be ehu rid hie.
It his doingn sad goinge a boy, evan though be ware old.
Das the preposition codi = is, for "And the trutit ires yielding fruib of the


Humber mases a diffurent apecies. With the possessiro, and eulding al-bural

[^5]$=$ ruhanbural, and jolning the preposition odi, the possaselve loses the $F_{\text {, }}$ the chif loase the in the eh ta joined vo thi $u$ of the poasebsive and beoomes chis. "The fowla after their kind" (Re akio leiçuss okukwanhwral). [Doubling thi bu givea greater emphasis.] Aa, with soft $A$, , or without one, eant be ruldod, monaing oontinustion, regolar arder ; chiohuknibural ha $=$ every poesible kind of spocies, omitting pnas.

## (2) Tus Word Nzu (Gabay) dx Pokomcul.

Nim and (ts derivativer are treated widh apecial fulloens in the Voenielsey; thuagh uafortunstaly the first gert is missigg botil in the general voealoulary and in that ou Pokomeld toouaf.










 awnohr eweh ak nim = my oompsalon on a boliday, bportiog togolibe, of the ame
 foe abother, from thio yorl nomah.

 for some diffedt wurk or Is a miatioh.
 Qujb, laib wis caral un cor awe wimath mea wel = I will say two or thou wands to strnegtoen tay henth.
 fal $=$ bobour me with shy company in my bouse. Nimhe, velt pansive; pisuanic virb sbaslata.

Nimadnad Dian the Lard God [hain in deaerhhed is the miasing jart).
Aimal, graudeur, majouty, in quantity or quality. Siniad cunal fepmuah, sbowlate

 digaltury of the town, of che peuple. Re ca nimat zu= Thin is our clief-whether in bien, aga, or digulty. Plaral, nimgui.

Cloome from numbget them ton gimuest.








Nimanie, ubsoluto varb of Nwank, sod because it is much used in other meats. loga has nenter, is is placed separately : (a) To live long. Ti nimasoctak quijlah nagy chihab sinisach acal (May you Iive many tenn of twouties of years on the
face of the asith). (b) To remain a long time in one place: Tf whancioctah dat ta zilad $=$ May you remain long among us. Ma wat nimaraic ahi en ailac $=$ Yeu
 go there for a little recrostios. Xa nintanic suh ahi pan ea wiwgwih = Tyou
 whille wilb you for recration.

Ninazac, much usad for growth of body, to grow ap.
Niwhal (verbal noun of nimah), ubedience, homodr. गevorence.
Nimeasif, to lacrease la sise, wheiher animale of treas, nud in fuite nad sins of virven: Nimetpoik onab panv tixamit = Tranagrebsionh aro increnting in the town.

Nimefs, to grow in bedy, not mahh nuad.



Aimguad, bigh -lay, day is solpmin fentivat.
Niaquilah (netive perb), to oelelipate, at the fastival of as asiat

 to the fentivity.

 ry avogiol = This jo one of tho prubjule.

Nhourd (the same se mimik, not meah sued), to grow la body.
Nimergà (oompolaies of nimith), to agerandise I ased malaly for magnify, hoosur, thougt rimauf is mpre nood.

Proiss, magally whith epeesh, the Lord, oll ye abllhree.

1'mien, magoty wite appeab the Dord, all yo workn of tha Larl.

Nimessah, not mnol uned exdept ith verbat senas and the phasive Nimieahik.

 weie $=$ Dy, thy prido, raloylory, and with ehi torip, pell-proise.

Nime ayak, rery late fo the evenipg.
Ninasah (ogompulaive of Sivief), similar to sol onars tised than himrazah and

 pranimption.

Tho Latio Nimin = groaty, pemes amonget the atrorbs, Pokomehil eqpivaleote being yoin, cice, rist ti, the sor, tith.

Grasi fo the Lord and highly to be prabed.
The ni wi chi nim ousphasizes the snpreme grnadear of God; the great Lerd God is the roott higg is greatness. Yad is the minois, grestly, worthy to be prasend. Magane binis $=$ yuh nin, exer nie.

## 3. Absthacy of home Pokomobl, Verbs,

Ahakyesath, to make nonsothing blecken itreif with noot.
Abakguel, to blacken with soot.

Anguilania, to work at latiding eat edlice.
Asasilak, to to eomething with forcoe, with apirit.
Amailanie (ntasolute), th foree.
Anoweh, to monall.
Asazen, to prohifble.
Aycaled, to possens, drold. Aycultie (pankive).
Agealric (neoter), to make onaself zloh.
 Ativah (partieiplo).
A=iA (soctire), to give hirtb,

dskie, to be liera (au infant), dikenae (pretorite participle)t.
Bablsoh, to row, use ours [nos, maste],
$B a k$, to tia ep, ustag many thris of the cord.
Bacameh, to use in bauner [Dacam] Boemmehic (pansive),
Bakril, to menka oseaull bohes, become chlo.
Badrisaf, tarned into bones, as a deal parson in a grave.
Baeverah (eorapilnive), te make thile.
Canefuh (aetlve), to wala a pareos lrom sloap.
Cananic (bnuter). Caneatif (frequontatiya), golng alfayz enraged, annoyed. Noanr datil numend of, my henpt is alwaye grompy.
Caned, to take captive in war, to aaptare a dity, to biant anlunsls. It is ralated in $\mathrm{ean}_{1}$ to find.
 samall hole in it hollowisk it a H1wn, and pot roasid it the tow, had plasiage another mast hand otiek with Its point in the bollow, diey whilel to with great fonep with heilh houde, till it enteben fle anil thiluse the tow ( (2) To delll wosd
 shaseblate whts the nollaillo. Cherarit (jnaniva),
Charad, shorsA (4ctiva), to pour out water-
 widu mater (canile).
Chot (activa), to strip is plat of leavel st the lounst doce.
Chuech, to make midt, elay.
Churarie (rnibar atroug the $r$ ), th make iteelf mind.
Chuaresal (compotaive), to torti It into and.
Chubeh (netive), th spit.
Chuhaleh, to bnckite, ditparuge (nan ekolah). It meaus more than cuthaA. Ah cAnbol (ahsolate paftiejige).
 aldaces.
Chat has mane menaligg than lettors : (1) to yuill ap harba with tho handa : (2) to pluck a fowl; (3) to thar out somense's lapir; ; (4) it break a eord or rope (5) piving it as asatastive coric (epoech), it mesas to feigo, invent phrases,
 the who in ay same went to aak or say something, I hot having sald it nor given the order. Chwesele (the abeolate). When a dylng parson lias explred, thay say pehich ru nurl $=$ now has the soul hean torn out of him. Chnararik passive.
Chuca, to sie livigg thiegs to the post, as un eplimal, a beri, the eulprit. Chuche (partiegple of thind porgon siagrilar), he wher in tied ; metaphoriently, to bo tlad


Chesowl (absoluto partieiple of oduk), CAxculquis, I am Hied. Checulkah, thoo art tied, Chuculcoh, we are tied, Chaculeateo, you are tied.
Chuchù (active), to nack. Chwchaxah, to give suelk, Chwehezkin (passiyo). Chuakik (Benter). Churideliomu (alisolute participla), the whe gives suck, the nurse.
Chrancyet, to unagare from the ellow to the point of the liand, the hand ontstetabel
Chumbeh, to drink in gulpe.
Cansed (netive), to worry oneself ahout samething.
Coumehreik (frequeniative), to go anriously. CAwmith (nenter).
Chamilak, to paint atera en nomethigg.
 very delpon an I. Chwarean (oompultive), turn into timbor
Chiseria, to recapin futo litee, a limeatona whens burat.
Chapach (active), to out op 1 tres,

Chyp (active), to estiaquich. Chypis (nenter).

Chegueh, to pull hairy to dreg by the halr, as a mas doen to his-wife. Chubaic (passive).
 spont of a viangae buthe.
Churih (ikent N, strogy r), to paur, like aherith.
Cherinvid, to pour in drope rapldiy.

## A. C. BRETON.

## Textlle Art.

## Ameriaan guill Work: By F. Laup Rath.


 Mas, 1918, 97, the tollowliy notes may porhaps be of leturiat.
 the uet of qull work $t \frac{1}{}$ dintinctiy Amofioasi. Whisu 1 wrota my paper ou
 pav. 17-57), I was asder the same improsalau, anmely, that quill work wia an Ansirinsin inveution, and so fur se porcupive quills wre consirnel I still think so, But a fow years ago in mach-travelied idyly, Mim Doskie MoeNab, informed moe that the liail nem quill work somewbere in tha Tgrol, and sinse thes, in s book entitied The Bremner Pask, by Constance Loigt Clare (Londnh, 1912), I fand two relerences to quill work, also in the Tyrol-the one at Brislegg and Rattantarg, oo. Hie Jan to the axireme nurth of the 'Tyrol (p. 38), nnd the other to the Passeier Thal, hetweon the Oetathal A.ps and the \&ateland Alps (p. 27). In weitber csse are we informed whother the guilh need wern thon of porapitae of of gooae; most prohably they were the lattes. I wan proceedligg ta the matur of obteluing apenimens whet fhe way broke out, and sinee than I have band nothing of them.

Mr. Merwin refare to the concealed sionw whidh bolde the quill, but does not mextom that this sineve in bold in poetion by still more concosled loops ratiod ou, and lorming patt of, the nurfsoe of than leather foundation (" Moensaias," Figo, 13, $15,17,8$. .). Nor does he meation that it in only the small tall quille which are uaed ; indead, I eat iny fingers very pevaroly la troing to do the work with the large body quills, until Mism Mary A. Owen pat mee on the right track by informing tae that ooly the tail quills are ined.

As regards she centre pianels (Merwin's Plate II) end the specimes nhows in [ 12 ]

Figa, 15 und 16 of his artiele, Which at first sight marly everyone thiaks are maile of beads, this method of quill arammentation is, I thelsik, made on a specin! frame which I deseribeil a nloort time sgo as a quill belk loom ("Studles in Primitive Looma, ${ }^{\text {h }}$ Part I, Jowor, Rog. Anzhr, Inzs, XLYI, 1916, Figs, 29 and 30).

All the Bankfeld Museme quill work enoonasin ypecimans asd use frontlat illnatrated to my proper ate not far off eighty yoarn old, having formed port of the sarly cellection of them old masenm of tha Hulifax Litavary and Philosophical Someiety, founded th 1832. In. Bankfield Musenm of ahous the suse bate wro hive somas old-fashioned pouches ; nleo a man'd jacket and full-length loggingn, botis oavaroil wilh varioss quill patierns, abeat thirty gears old. Thape mist ba a copsidurable quantity of quill work apeeimone in the old oollectlons in oir Euglaj misesimes whichi should be worth invantigatigg.

Not the lense intareating polns aboat this quill work la the altered torns io which we nuw see it. The oxptio bepd work ormanentation leal ge easier is produce than quill Work, lise minrly everywhere driven not the old ntgit ot dearratiou, bos the laper seams to ba holding tos awn in out form nt loast-on blrch-hath hores. whiak with the shaaldered batonen paik sppear to ma to ha sho innovntions. In
 In and buld in panition lyy tis slactialis of the bark+ while in the manaine-made
 going right llarongh the lenther, bead sant merely shrough the furface, so that the arigiea! art is qaite loas.
H. LING ROTG

## Gold Ooust Colony ; Arohieology,

Migeod.
Disoovery: Palmenliths and Pioreed stones. Ay F, IV, ZI. Migerad.

## L. Pabeonatic.

The fuding of stoan froplomants of palmollulio igge is ne mane lif Weet Alyan
 presumed pilanilth I ploked up or the road 45 milon nortirenst of Komant is the "deane" forest wes. I have renently finad anothat ngat Kjers, 00 milea north-ebet
 expoled. The teaidescy thera monid aeem in be deandation methor than atarotion of
 appearace it is rary like the imphorsent (from Broom, Datsot) uhown of p. 20 of
 in in its ronglo state. The apper patt of one aigo seame to linve bean nead as a autting edge. It wonld sam to be of Pre-Monsterlen type.

## II. Iemerd brosin.

(a) This I naso picked up at Efurs hy the rouledje. It hud avidesfly been recently foubd by in tustive and dropperd there, Its dimensions atd : diametar, 6 inoline ; thiektess, 2 theches; diamoter of hola, emalleni over 1 ineh, Hole slightly oval, poked ont ha nuan nod cone sbapod each side. One side of the stone hal beear broken in ancient timet, and thore sre piak marlas on it showing is was enoarthed Then the motor road was made. The misterial is granitic, and is is permouently atained red from resting in the olay (laterits), uxceas where the piek marks khow. No native to whom I stiowed it conld buggest a possible use:
(6) Aandiser plerced swoue has alse bean shown pie lately. It was found at Mampong, near the stream which supplies the town with woter. The distace
ia 45 miles from Ejura and 26 from Eumaal. This stone was not coloured red. It

(e) I om tald that small plareel pebbles may be plokoil np is plenty in the purthern port of Togoland.

\author{

1. W. IS. MIGEOD.
}

## REVIEWS.

Indta: Musics Instruments,
Meerwarth.
A Gude to the Collselion of Muvieal Lnstrwments Fakibited in tho Indima Muswm, Coleatta, By Dr. A. M. Meerwarth, Caldutha, Governmeit Prena; 1915. $8 v 0,37$ pp, XIII Platail, papar eovers. A anmas

This Littio pribliontion will be walcome to many who are laterented in tha esely history of mastosl instrusanta, or who have any Indian musical inatpumenta under their abarge for fle numerous illantrations, if mash, are fairly olane, sail will mable the studeal to difistioguisa and to mame my fued inatramenti he may poidnss or lie intereated to. Whe are slmo fold nomothing sbout the mathods of naing the festrus. manta, tha osentong of thalr mas, and es litele of their liatory; the information as
 hawever, on p. 9 , regurdlog the urigis of the fidale sind fidele bow ininkes ane think he bas uepor hased of Ballour's Noersal Bixingy of the Mustoal Bown,
 "galis." As a gable is nhould cell on in what sute the siriagel lestrimenea are



 tanted wo ure trated to rownaka like the followionjo "The tuan [sin P tone] in





 whin and be deue with it. If she abthor does not know to whist flee hastrumanta

 appartanity of telling is what an Jodies mative arelasta auppliad with makive inatrumatite can do, when he dinglased the rateraace to thae Inin Itaja Sir Soriudro Mohas Tagara's maniffoent gift of an orchestral net whith the worda, "Here wa mage " sgaie the naiktomety of Tadia'e musleal inatrumesik, this time asmixed with the " lower ranks of shepperd-flutes niad fuigtor drumes"
E. LING ROTH.

South Amerloa: Spinning. und Erland Norlenakitio. Giteboug. 1918,

This intereating sud well-ullattrated senont of the talcing of therosid and yorn, with and whour the splaile, by Souis Ameriasid Indlan taibes, is an tmpoctant contribation to thes study of tha sabjeat. The authors deseribe thes ehlat materials employed, pointing out thes plant fibree tee masde nse of all over the mgion, exespt in Tierta del Fuagio sad noighbourling areat, wharn sinevs and strips of akia predominate. Wool as well as plant fibres ars employed farther north, adod some account

If given of the plants from whioh the fiblas are toketh, anil of the mathodis of properatioc. Over the greator part of Suath Amerios the cotton plant is nll-impariant, aud it is caltiveted by muny trilies of Indlans. The anthers do not give a defnite coaclacion as io whether the eqpitivation srose Indepundentl) in the Old and New Wotlde, hat thay holiove that the use of a bow for teasing out abil cleaning the gotton is dne to mientonary influesice.

Twieting by hand aogars nild arer Xouth Amsrica, though if is ouly foned in nas eroeptionally in the one of wool, and cotton. It la done on the right thigh with the rieht band, the left hasei "foediag."

No spiadian in mployod in Tiorra del Fuaga, yor amonght some Arnwik tribes and otliers. Whemevar the spindle ia usbl, bettor la aptn, and generally wool nisa Woben are manally fibe kpintters, bat nanongst the Borome the wark is entroly uniletipken by the men.

Thas spiadler and the methode of use are desaribal na falling jate two mini
 is the lean widely distribited, and the authoes pogand it as than morn primilives.

The Borare type af epindla is earefully whaped and amoothel, uut the whort ia uner tho and at whelh the yarn in formed; thare to no lonk or bidk nt eitlier end. When for use the spiadto lo kept boricontal, and to mataed on the whigh or nulf. The

 votilar In a nabirsf hearing.

The Hakeifi type of splatla in nenally not on wail-Baiahod he the Boreros, and

 witk a book (only foend in Grians and of tho Amazon) the whor bay log of atout
 spindle-that is, the loager sud, ar that whtah has the lieok. 'I'Le work may be


 whilet walkiog.

The enthon' ponelusion thist the rotelligg of the spinites on the thigh is the mote primitive noems slanyly the sarreus snes, sal is may bo bgreal that the emstuti-

 be alane when the limbe were nlothed, and oven whilu the operotay walked. Thare arti, lowever, oerhith luproyomente in the Boram methed wheh have minel gronter Luterast, sfise they suen co throw a light apon the orypin of the upinuibewhoul in
 develepmense whioh took plaes in Sonth Amorits taolf, aud this conolusion appenys to be it secordnace with the egidenee. It is tempting to believe that as a distans pariod aimilar rarialiones arose in the Old Woild, and lal to the prodection of the apitnighemheol. The partieulats of the modifications many be hesurihed in e fow wordas.

Some tribes (though thot the Bororo themselves) who abe the horisontal spludle, rotate, it on a biler of wood, or then appar burfase of a stoat, whinh thas takes the place of the thigh. Fwether, this epplimete tay be usail in coinblaation with the toes ass कsappost, or these inat be sapplanted by a wooden fork or reat The eoms. bination of these two additional partor nuggeate more than a mere smanciphation from the shigh and the toes. It has always-to the prosent writer, st any ratio-boen difficult to pietare the way in which the spindle fint feund ita wny into bearinge, soul

30 permitted of tha derelopusest of the upinuing-wheel. Here we have one end of the spisdle fittad into a very deflnite form of bearing, and thouglo the ofker end Is
 how this end also may lisve beee given a fixed bearing. The wheal of the spinningwheel many safely lie regarded an an mppltation of a priveiple alrasily known in the Old World. The fundamental atep in the development of the splnming-wheal was certainty the proviaion of besiags for the spindle, and if In the Ohl World this lafs the thigh and the fork of tbe toes for oupports siinilar to thote just dascrilied, there is listle difionlty in platurieg the avolation-if the word is not olimoleto-of the mpiandeg-wheed itselt. The writes is not negaainted with any Old World applianosen simflar to those of fau tribes using the modified Borara moshods, and fhe aathors of the bouk under reviav maka no raforacue to any deductioni whish may, be drawn from thase inethodif it would be of interent to know It they have endeavoured to find Ohi Warld parallels.

Sinee there has been some eneeriainty as to the use of the well-known apladlelike objecis found is the graves of eosotal Para, ned aspeofally sa Cruwford's view that they see nat apledles has gainad eonsiderable eseseptence, it is worth noting thast the nathors make nat 6 grood case for the relnatatement of the objoots ont ppisides (of this Boppro type) used ulso as npualn.

Many quetations are given froms sacienc and modem antborn, snit is in istoreating to note that the paper, writen in Garmian by Swpilih lavestegaton, contuine oxtrivte
 gups of distribution, and the lllastratloon arn numaroas and eleas. II. B. II,

## ANTHROPOLOAICAL NOITE

> A Ineztipte
> (Donar indiculed is paronthesen)

Folthory in the OHd Tertanant : Studiet in Comparative Religion, Legend, and Law. By Sir Jamed G. Erazes. In thrian volamoe $9 \times 6.569,571,480 \mathrm{pp}$. Menaillan and Co. 37s. 6d, nec. (The Pablimhera.)

Aradaeloginal Surney of Tndia, Aanual Hoporh, 1916-6. Edited by Sle Jobu
 Calentia. 278. (The Boperintendenc.)

A Naturgast awnag the Head-Hunters, Soing an Acobant of Three Visitn to the Solowion talands in zhe Fenrs 1886, 1887, 1898. By C. M, Wooulford. 7 $7 \frac{1}{4} \times \mathrm{B}$. ${ }^{24}$ pp. 16 Illustrations anil a Meps. Petieriok shid Ca, Melboirne. (The Anthor.)

The Astronomical OXervatories of Jai Singh, by G. R. Keye, Arehaologieal Suroug of Andia, New Linperial Sevien, Yol XL. $13 \times 10.165$ pp. 26 Elates. Guvernment Printing, Caloutta, 28s, net, (The Superinteudent.)
 tratal, King ani Soun, Lid. 2s. Fid. vot. (The Agthor.)


1*i) 1


17M. 2


Fis, 3 .


Fill +

## ORIGINAL ARTICLES.

## Antique Sculptare. <br> With Plate B. <br> Moir.

A Piece of Carved Ohalk from Suffolk, By J. Reid Mcir,
In the carly part of thin year (1918) my fulend; the Hionoumble Robert 10 Gathorae-Harily, found lying upoe the sarface of the park in whidh his residencs, Great Giemhan Honse, Snxinandham, strods, the piees of eacred ehalk to whjeh this bota refors. Mr, Gathorsie-Harily is, unfortanataly, unable to remember the exast apot whare the apeoimen was found, bat, after bavipg gome over the termin in oompany with the disooveree, it seems to me in every wiy prohable that the escring whe brought to tho nurface by the netion of nabbiti, whoso beirows are very numeronen at Great Glumhsm,

If reference is made to Plate Es (Figs. 1 and 2 ), it will es once le neen that thin piece of ehalle brars, io ile nesline, a ratber cloee reaembiance to the ouiline of the manmeth ( $E$, primigentus) whith wialah the salentife world had hesone fumiliar by an usamination of the aareases of this animal toasid is the frosen ground of Siberin, and by the drawings and ontlines upen bone and other naterials dhanvered in the Auriguscian and later I'nleollithis Ilepositar in Franee and elnewharo.

I bave propared a rough ontline drawling of the mammath (Fig. 5) wo that the eigutifance of the form of tha plece of shalk under doecription may be realised.

It will be antiond, if compariace If mide of the photegrayha (Flate B, Fign- 1 and 9) and the abovermentionel outline frawligy that the peoclise booud dike form of the top of the matamott's had is proctruyed moce of Jean suenenstally lit itie ohalk imodel. In my outline drowluy I bave porposenty ponitind pritiog in the daples of the mamal, as these do not appeat ia the carring. The curion downwarl ulope of the mammoth's bisidquartors in Hiso well depletoil,

The buad piees of chalk (whieli is

butiline briwing of Wbocly Manmota
[Theplas ptumequmius]
P14. 5 of a dull white oolourr, asd has sandy materiat oumented in She intersticas) from whlab the statue lise boen formend was avidenily derived, aciginally, froai the ohatiky houliar olay (whideh doposit is exposed in as pit nowr Great Glemhisis Houng), aed it appeser that ox ono side of the carring (the loft lateral serfeoe) a portion of the old atriated surface of the nodula has been resisined, the atristiona giving a realistio Inpressioa of the linit whlah we know the msmmoth possessed in sbundance (Plate B, FLg. 1). It will be noticed, slag, that a small, batrow inciation to the heail of the statan (Plate B, Fig. 1) simulates the appearance of an oye.

When we turn to the view of the venimh amface of the onrying (Plate B, Fg. 3) We notloe that the foir leiss, ponis, and belly of the creatime ire depioted in a remarkable and realistic mannan An exsmination of thin surface shows that in all probability the hind logx and penLs (which was probably ropresented extended) bave beed hroken off In suolent times, and this moy steo spply to the trunk, the lower end of whidh is visible in tha photogriph. The right lateral alde has evidently theen axtansively fashiosed, 35 none of tha original surface of the nodnle of ehalk is visible upon it.

The sculpturing of tha head, ear, eye, trumb, and elaphantine-like foot la very ntriking, and teasifies to the akill and ncenfacy of the ansient orafiaman. The dorsal vien (Plats B, Fig. 4) shows hbe well-soulptarud back and postestor poiltion of the hasd, and It sppeare that an efffort hae been made to represent a tail.

Whee the soulpare was complete and unarodod it mast have preseated a quite remnrkable appearanos, ard the pose of the lags nhows that it was intended io portany the aulmal as it in rapid motlon. The nran which has been modifised by ueulptaring exbibita ata entirely difforent surface form that portion of the loft Internt side which showe the orlgimel strlaied surfoce of the notule of clasic.

Tbopgt the eppoimen durlog the paetage of time-for it board overy sigh of notiquity-has aufered alight arokien, it is atill poasible to dinvern, with the ald of a
 whbleh was asod Io the aculptaring process. A very well-marked cat is also ohaervable nt the baak of the bend, asd ovidestly imposed when thes portion of the statne wus being formed (Plane B, Fig. 6), It ia clone to me that these thin linea ware no eenaed beceano I have cosducted noase experiments in barving chalk from the hoolder olay, and fiaif that similar linet were prodneed by the sharp-edjed, filat wholf I mand But whereas the lines upon the exparisental specimens swo binar end sharp, thone

 whidh It late lain.

My, Gathöne.Hardy's painurahing and bupartanh renparshea have untablished the

 meata raonversed Iroan thene fleor, and wonld isfer a proportion of thom with somo amout of onriaincy to late Paluolithlo timas, whan, as wo know, earviag it is


 Norfolk. Bat stis imporinet dieoovory by Mn, Gistborne-Fanly, whelet it has been
 pasibifter of floding expamplat of the artatio work of late Paleofithle man fa England.

> J. RED MOR.

Noril-The piene of narvei chatk deacribed meanuren of focher to greateet


## India: Ritual.

Hut-Burning in the ritual of india. By $\mathrm{H}_{4}$ Crooke,
The uae of sxtemporited buts in ritail la a queation of some Juterest, II Opid demeribes how, st the festival of Anns Poremit, oo the Ides of Marsh, some prople ley in tho opes, some constructed sents, sad some made ruite buts of ntaken and bramehes, atrecehing theit toges over them to form a sholter.t Similar bute aned at a Romatu rural fobtiral, and at tho Neptrandie, on 23 July, resemble the Jeviat custom at the Frast of Tabsrancles. $\ddagger \mathrm{Mr}$. W. W. Boviler, S dinoussing tbese and similar examplas, follows W. Robertann Staith in oumparing with them the rule that aftor hlondahod men might oot anter their houses till thay liad undergone an rite

[^6]of pargations." "We ninst," be remarks, "be content with the genoral prieciple that H the boliness of human beings at particular times ls liablo to earry vith it the *p ptsetice of ranoqneing your own dwelling sad living in an extemporised hut ot " booth." The idens of sabotity had of tabo die to pollation ard ae alosely linked togatbos, thes it is may to mulerstand why persons it this concition are hoi allowed to enter a dwelling-house loat they enay so defie it that if is uafit to be ubed by other members of the fimily. Sir James Eruar bny collected numerous eases of thir find to whlet pirbons muder taba, wismen at the period of mensirciation noil in chidithed, are seeladed In sepprate base $f$

The pracelne conflnch, io far as I san ewaro, in chin spoeinl form io Tadinthat of the lamag by beren women in the hope of procurigg offipriag of atsow lats of piegee of the thatch-formen the sabject of thie papor,

Atbantion semer to have beea firto called to this priselice fo the Pajab by the late Sur Deneil Ibhetan? He notlond as a pommon boliof smong Fisin womm, that tit thing nucoed in bunilag down neven hounda they will hear a soe, and that the oenaressee of fres in villogee le nat ancommasly dae to this aoperaltaion. This whas corrathested froms verionin other sogroses. Fivas is the eity of Delhi and in the
 distriot is which if was atieged that tha sengend, wamen of a fumily living in the nelgobourhocd, had get fire to the oompladuan's house la order to avert a calamity



 sud Oufbi, was oobvicted of sotbing five to the thatclied hat of another Chainte,
 to sueth. The atory of the necouned whe that she bad beon miuriod for inolve jeark, that two ehilitroa bad been bans 6- lear, heth of whone died in thair iufanay, and that by the adyioe of a norgever, whe hud not fire to the liut lou thin hope of bariag




Simlar hases have bono reported from the Central Provinues and tha Dsones, Amang tha Karnir of the Contral Proviocee, "If a. Wocman be borren and lias an



* form the desd. So loug an somes amall pars ie sha hoene is fourns it does not " matter if the fre be extiantuishes, het the woman shonlt eot give the alare her" solf. . . . Sakse yearn ago at Bhîndak, in Chiteda, complainte were maile of " housed lieing net on fire. The police offeere kent to threstigate foum that uther ${ }^{4}$ stasll fires eontinuad to occur. He genrched the rools of the houses, anil in two " found litule imonildrring bulle of poilod-up cloth. Knowing of the moperstition, ha


[^7]${ }^{4}$ and the firse stoppel,": In the Sintirs distriet of the Bombsy Prosidency twn women were tried for arson. An nstrologer foll them that thiey would bent ahillron if they set fire to seven honses, sail they followed his ndvied. $\dagger$

It in interssting to note tbst the iden of hut-burniag appears In osis of the magieal charms recorded is the Athareaveda. Is ordor to onre as woman of aterility the offeciant Boiluman pours some elarifod butcer and of finto two tabs stavilag in a line of three hots, which have dongs facing sant ned weit. He then pones some mare batter an a piece of lend placed on a leaf of the Palasa tree (hateve frowlesa). He thes washar tha woman, pha is iresed in a blsole garment, with tha water and fuitter, and alie, dropping ber garmant, makes loer esespe, wbile the Motiliman suth fle to the hatif

The quention arises, why doen the barnligg of one or neven hats, or part of the thateh, ly a woman remove har atirility? One esplsantion has boen soggested by the late Mr. IR V. Rusuell and Mr, J. T, Martior Mr, Busanll writer ; "It in apppasel *that tha epirit of aome insoot whinh in bereed will entar lyer (the woanat who
 " oloo's liouse so as to obtain the spigit of ana of the family's deud ahildrea, Whels " may he supposed to have evterod the latecta dyrelling is the bone."I Mr. Martia mysi " "An intereting corollary of the dooking of re-birth of men and animale is to " be found is the belief that if a barren wownes ants fire to the thatuk of a bouse "at sunaot or novin, sume ous of thas mutitade of laseot life destroyed is this bolo-
 "formerly reported in the Chasia diteriet to be dye to thta toperstitios."

Thas formi af the belief in relagomation rejories fyom the Oenteal Provinoen
 briming lansea has bees there altribnted to this saperstitios. Ai tbe same thas, nilt
 " wounan 4 asd this seume to be the arigin of the sanuson praetoe of borging ebildron under the eaves ar lereabotd of the hoize, in the axpectation that then spirit may anter the womb of tio mother of of suse cilhes women of the faisl)y. Bat the beliet cirrent to tion Ceniral Docolnces hanlly explninn wiy the barean womav selneta, nat, Mn would be more naturnd, bee oun house, bot sbat of a straugor or
 objgot as the promumemt of male oflapring, would probibly be obnoxions to ranat Hindus, particniarly to thase of the Jain of Vaintoavis sets, wloo aze axtromely carefut net to destroy the lifo of even the menanat eroiture.
 bor eared by tos destruction of inseat life does not appear to provinil, We maist look io asodior direction for an explanation of the prectioe. Nor doss the simple Stan that the hut is burnt beouase it is infented seeount for the sustem. As regaris the cuntoms quoted above from the Aedarvavedia, it does not seem necossary to semume that the eastom is ldenteal wide that nave under douslderation. The has in this

[^8]enee was ourat by the officiating Brithman, not hy the woman; there seoras to heve been so pretence of secrecy in, the yite, is it the atse in the instanies mocorded in the Central Provinoes, It is perhapa pasibld that the hat was burnt breanse it had bean oecupded by a woman whn, at will appear later on, was lield to he undor tabu; or it may have beon taba bsacase a magiesl rite was performed in it; or hacosiae the officiant and the woman who paid the expenaen of the ceremony wers dasions that the valas of tha magic might set be spproperieted by some othat wornan who land not taken the troable to arrange for such a parlormanea or to pay the exponaes of suever aties

It in true thal the pruatioe of buralag the buts in which girla on reneblag matarity oe expectent mothors are secluded io common. Of thip the most peasonable explanation is that the mara presence of the patient make flio hut imperes, zoil it is destroyed leat tha imparity, which is very coutagious, ahould lie eonveyed to othors. In Madraf, when a Parivaran girl stains maturity slie le kept top alxtent dage in a lats whato if caardad at thight by beer ivelatives. Whaus the period of limpurily is over the hat is burnod down, aed the abrthen pats used lay the girl ane lookse lato stanll ploces, mi it is sippored that if rolin water eollants in nay of them
 ihe in couthod in a mpeial hat, in whith a pilece of lrot, margosa (melia azadovechta) Lonvee, stioke of steyolines sux vamica, nad those of she arda plast (oaldiropis giganteit), all petest ia repeiling ovil epirite, are plagol. At the mad of the peried of poltasiou the but in burn downst Among the Pallane of Madrss the hat is aude of the learen sail tomacher of spoplat treas, and if if burat dowa
 n foriaight in a sunparary lant, which, whes she is puee, the buras down I and when
 lasves and brambes ; this is lignken op and robailt on the taird, atth, and soveath Dayy of ber pooupsteny'f

 porbape with raferenes to another side of thbur thar we may arive at a solation of
 as. the rount of the agency of mallgnant spifith or dannouis flon woman doed mas bose childron because shit la lasest by some ovil spitit.

The use of fire it a mothol of purifyigg aitangera mise pro noder talus is fombinars The ame methed is used for India in the gase of the readmiation to
 eacial rugulations, and are for tha stime wuder talug. This, in the Berols State *share la it ourioun onieal fot defactiere among the Kukanio [a forast trile], If H wuy Kakani bus eaten forbidden food or bea enmmitiod nalattory, be in made to "past throagh aeven grass pils. Ho first eniers the first pift it to fogited, nad the \# man goes to the secood, whare the bame prooess is repeated, until to pasoss

 "the affirmative. This also is done seven thmos. After thin he is maile to swear "by hil god, and to promise not to do puoh a thing again is future," Is some

[^9] 108 f.
cuses the euremony is so fat modifed that the offender is not astually exporen to rizk of life．Thas in Madras，a Korbvä who has been exeommisniented on sccount of ha iatrigue ofith a widow has to pass tlirough a athed made of millot ptallas，which are sed ou fire as he goes through it．＂If 事 Koyi givl connorta with a unan of a onets lawer than her awn，the pair are slesolved from aln by baving their tongues branded with a goklen noodla，sud by lieng mide wo pass poder moven acchoe made
 Kinari，when a man is expomanuicated he is requitred to＂bura seyen villagor ${ }^{H}$ in onler to secture ruadmiasion to ente privileges．Sewan omelt lent baotha ars built， and bundlas of grans are piled round them，Thas oujprit bus to pass chrough thene
 still milder form of porilleation is alao found in ther Khass diatrich．Whien a widew， or a woman Alving apart frow hor humbun，Geurs tur Diagitumate sidid，she sends the sews to the Biri，the medioloe－man，at critel priest．He makas her sit lesore a copper pot filled wifh sative opincs．Then he lights a lamps suta io tor che middle of the pot，plaola a couple of hatrs from the front locks of tha womsa＇s head，and laying thom in a toy but made of stram and stigk，sete the whole on
 ehastity fre ordeal is that of Sitti，contorn of the horp－gol Rimit，who poaseal through the fre and thun atablinbad her parity．Amoug the Bhamptas，a urimionl tribe



Tu the more stringost formin of this fire rite the asolpeit was probshly hurnt to


 and parifod himeif by plagitget tain it．Is mmen of the Todlan anses the offouder
 tman of suother cule，slie tasy be restorel bo bur origheal stase by haring ber bead




 to eat fooil from ber band，asd wie in thes wimitteil to osstes griviloges．tt Among
 other narlous offlencs，the Is expelled from her coste，sud whe is not readualued satil she goee throgigh the following rite：Tbre atalki of millot fate fised in tho ground with their tope twathing．The accosed wuman by forced to ntencl under them，nud then they are set on erm，she is tbee brnaled with a piane of bet pold， and tha bocomgs purified－半

When s Kongh woman is convieted of sduthery with is man of a enste fowar

[^10] Iv， 51 $\mathrm{H}_{4} 580 \rho$ ．
than that of her own ha mast matry loer. Firat, he miat buid a ministure hat und place the wocman inaide. The lhat is ast on fire, and the womse arcapes as bast she can to another place, where she undergues the anme purifiation until she has been burat ont sever times. Sbe is theal oassidered to be an honeas woman mud fit io be mamied. A acording to anothar mecoumt, a row of neven liata is buils on the hank of a river ; they ate set on fire, and the galprit is compelied to ran pver tho burnlog wood und ashas," Among the Baksidard and Butaditil of Mywars, if a womsn is sodured, she is takeo to wifa by her paramarr, eveu if he elasioek to bolong to a different enste. In oxder to purify her Ion marringe, ber lover boilds a small but of straw, pots the woronn Inside it, and nets it on fire. Sbe makes her esoape to another village, whenre ther same eercmuay in performed, till ahd hae bow hurns ont eight


A sumlar form of perrificatias is enforuad hy thase anstas whioh admis absagers to thele cemmulty, Amoug the Uru Ode of Bombay a strangar wishtiog to join the tribe is ahevel, and then sonted in a nexal hath, which is ket on firt, when the
 masitis mombere of tughar anated who lanve bosn oxoommuntented. Buab recrults are paritod by abining of the beaid in the ena of malea, lanesillig tha tangue widt in plece of buetad gold, drinking sow's urins, and bathlog in water drawit it atared
 erectod, and bupnt down nfter she vandidaten have pased throagh them.f

 ecanati in pasiog throwis ievon hata mado of yiraw or branoben wheck are pat on firg, tbe panage levolvteg move or lens jphyseal dangor ; anat that is soma ognes the oecleal has been so walerad down that the riak to lifn or 1 jmbs bo morsly naminal. This, 1 vesture io arggent, is the origis of the rim th avert alerility "whall we liave bedo gongidering. The woman whio is baiven if supposed to bo under a esura, ap ts
 ahe neode purifination hafore uhe oan agais seame the boon of abildrets. Probully is the more primitive fovis of the rite she did setanlly, wib morn or leas danger to life or limb, pan throngh seves barnigg latis. The neverity of then rite has now

 withous any dauger exeopt from Beifleh Lar. It may be aulded that in Vealie timn
 the leflaence of evil spirith. In the Athareärede, to eure pain lit sie hospt, dropay, and jasadice, all spirithent dlseasee, is oharai ie preerfibed, and watur, drawn from a
 and eprialled over flis protiontal

There are numerous parallela outside India to the riten dasensed ia this paper, Aucording to Prolennar Westarmarel, in Maroces, ou Mideommer Eve they barn the theni of a wilow who hak nevar given birth to a elitild, to order to rid the setslement of OlJ-Jenk-probubly, in partienlar, to cheek sterility f the Zummur tribi barn the tent of nomeone who whe killed in war durtig a fativil) if there bo no such persot if the encumpment, tha gehoolmaster's tont is burnt instond; the Beni Absin maka

[^11]a little toot of straw at Midsamemer, get it on fire, aud lot it fiost down the river ; the falle burn a straw bat at the river which flowe past their town,"

Ooe of the leas perillels is tho cercmony at the Greek fortival of Apollo, known as tha Stepterin, a sathartie or purificatory fenet, at whioh a boy mpocially selected, wish his companions, undee the cesort of the Olelal of saored Nomall, und porsons besring torchos, was led lu silonoe to a building is the form of a palace, which represented the abode of Eython, the bacrod serpual This they sel oui firs,
 Herough the door of the temples Theo the boy leader foigued to golato axile, or eves into servitnde. After this sll were parlfied, orownod with sueroil laurel, and they returned to share in in sacrameatal meal. The objeat of the cerrennony was io psifly Apollo fones ibn sin of slaying the mered ankent
 easy to ulassify ur explain. Rohart Southey guaters the follorlug necount ; "Oa " the anght of then aew moon, in the munth of Oaboler, tha primees are ohligad to ${ }^{4}$ ses fire to ceriain boasea, is honoar of a vletory obcalaed by thair goile on murid.
"The dhovee of the heaser is loft to the Brabming, who thine safoly gratify thalr
${ }^{4}$ own anmities. The seanal is made auddenly, the lionaed sre set fire to on all
 "they oall tha boly merrifee of blood and fira," The viary probebly eowes fiem Boather Ludin, bot I have baen mablle to trioe any bthor aseenat of the rita.

Dartsig the wervip of the villoge foddenes fin the diatriot of Dierway, in the Decona, tho fmages are plaod in + grass has, kngen na "Mitangi's Cotisgs," Misugh, "the yougg womad," blog the site of the goddean more nominonly known ar Bhairin Kaif or Marlyammes. 5 (Whan the banges are nasoved the hut in burnt down, poasibly becanne, owing to Ite socupation loy the divintios, it is hald to los narer of taba, ]. In the resne why, the Mhille of Madras ereet at thelr ceromonion a


 "ibn Baigis [prinets of the Gonde and othor foreas tritiee] paride the streste, takling

* trous the root of exch hot a strati, which non bapht, with as offorlng of piob,
 Poastiby thin may be lefuedad to mark the ansociation of avary houseliold fin the rites intanded to propitinto the droeded Mother goddesana who esateral apidemie Cinmans. The Bundie of the Centrnd Proybees obeerve the festival of the Pitipakabis the formpigh of the month Bhadon (Augnat-Soptunher) epssecrated to the wersblp of the Manen, as followe: A. human figure made of the sacred huse groan (poe cynorsoider) it plated under a mialstors grans bete a lamp is kept burning before It for ten daysi svery day fresh twigt tued for eleabiog the leesh are laid before the limagy, had it is supplied with fried riee in the moneing and a mest of

[^12]riot, palse, and vegetablas in the avening. $\mathrm{On}_{\mathrm{n}}$ the tenth day the priest eonaes, bathes the figure seven simes, plases boiled riga before it for its fipol manl, and then, after the recital of saered texts, eets fire to het, sod presumphly to the figure within is." Here the fimge may be assumed to represent the collective recently depescod abcestors of the tribe, who ace daly led during the period of the eeremong. The frage and the hut containing it are burit at the close of the festival, mparantly beasuse the spivits of those recently dead are nour namqued to bave guined untrsnce to their final isdieg-place with the general hody of the Pitri or ancestars of the tribe. In Mailras, whals a Natukatiai Chatsy yunth poforms the rite knowa as Suppida before his burriage, lie goas to a templa of Gasona, the ielity of goud lack who favoury all eaterprigos, whirts round his hend a bag filled widh breming yharegal tied to a loug strigg, sppareably a prophylatio egainst ovil epifits. Theo lie bifme a beoth est up in front of the tomple, the asher of which are used to rakike a mark on the torehesdit By this rite it wonld sppear that he entere Into aummunion wihs she god whe, it is bopod, rill make his hastiage pronperoun.

It will tave lasan sotiond flast the number sevan plays ae lmportant part in theso
 of its ase in Hindo culta, io North Judia this is the number of the handfula of wheat sud sugar which are throwis lato a ripar to appenas tha flocd deunas in a charm for sassisg pais to ceases, seven piopen of aranion, novein graias of mustard, neven blto of gont-dong ume plabud ander the honse eaven 1 thny ropresand demona

 Adityas, nod Dloeves i beven horsen of the sing god. In tbe same why, niren wan
 groups of saven wells, and, in partimalat, in the raking of antia.]

In the preseit onse it has hena plausbly auggented by Mr. B. E. Finhoven shat the rita of pailag throngh seven buralag lhots may be ${ }^{4}$ a rapid yepresentodon of
 " have paseed wiblowe farther trangrosilon. Tbe paralle nogegosind is the law of
 " endognimotis marriaga." ${ }^{2}$ /

Un the whole, I venture to sugesent that the axplanation of the the to ebeek aterility is bet based upos the tbeory of refucarnation I bat that the cesemony in a form of ordeus, or is iseaus of pargition or purification, by which the ehildiees wossan bopet to free lecculf from the evil indneacen Fbith eome bacrennens, and to proparo harealf for concoption in the gormal way.

W, OROOKE.

## Jupan : Folklore.

Hildburgh.
Note an the Gourd as an Amulet in Japan. By HF. L. Hiddburgh.
Amptig the inclitude of formi aspomed by the Japanees natauke, that of 12 the bottle-gomed is Enamally prominens. If is peediarly adapted to serve for that of a uatajke, beeause its constrioted portion gives a place for the cord, while its nmeoth and rounded mufaed parmite the netsuke to pase sasily undar the givdle, thas Inclltatiug then patting on or puiling of of the artiole for whose attachment

[^13]
the potsiake is used. Bat in the balief of many Japanase there is miach more in favour of a gourd-alaped netrake than the mepe convocionoe of its form, for to anelr a notsuke-an to sompatatively very few of tha vast numier of netsultes nf othar form which have been made-they attribibe a certuic mensure of magieal power. An metual gourd, of it oogyenient siza, aitber with is natural surface or ornamasted
 bone, ivory, wood (plaia or liequered), matal, glass (olther solld of ballow und sontainigg a liquid), joie, sgate, sanpstone, ar wame other matetial, is empiloged. Children me the gotrib-form very oomunoely, aften an a natuike to bold the lietle
 mont sewn apoit or humg from chese linge; they une it, too, se the basia of certato of the maigo-fiedu (the tiekets of Isbels bestog the aame end uderess of the parents, and perhaps some orauneatatiou latonded to asoune maparmataral proteatinn for the amall wasere), to which, amoge oiber forms, that of \& longitudinal soction of a botelo-gonid lo given. ${ }^{*}$ Eidarly peopla, alao, efton wear amall gourds ar effigios of goarias, Which servo as thair notenkes. In sho casen of both thase nod the
 to to the koeplag of its bearer from ntambling und from lojary by falling.

The hellef in the botale-goand an an anolet agsinat stumbling of injury by
 liste over a centary ago, the bottogourd is meational ue having boen carriod in the Guaroku perlad (end of the zevemteonth sontury) at a chavm againes stambling.t Laker, is sinall Lmprini, rapremedug is bottlo-gourd, gatoe to he atampod upou geta
 a mosklag whiath I boliores lo sulf somethann followed. The guind is far from kaing the only ammer to whalh tha powne of fimarying ise beares frow folling ber
 presont time to the lithe hall wara at tan willot by Jepanese liffunts, to dorthin atonia (muph as mole-aryatel) to to certain mmilete of religious' origie, and to nomat
 that they ere raspestivaly iodicationia of a phane in the dacay of itore primitive bellefo, for aldongh stanbling is st dsugor to whioh obilitron and old pappla (who are looked upas as abiarlag their nenond chilhhood wbso thoy reanli the age of sisty, and in notasequenes ofinn wear. Jhe ohilhism, fall undergarments, rel-lined elothes, ar red capef) are partientariy exponmi, it suems bardly lifely that ao many amulati which are bas dirnatly annectable (recording to the gonemi privelplan minderlying tha meloctip of objoote at smelints) with falling shoutht have beea eapooially daviaed agsingt friling that if, we seen to have a good reason for ignosmisg that
 resembles the presmat earrying, by eduented Eseropeans, of ceruain things (formeriy ased hs protaotions against the affect of aoteary or of " evil eye," or agolast na illiness) for mere "goas Junk" That this is fudsoil no in the eave of the litile bell

[^14]
in claarly shown by certsin evidencen; it is farther fliown In the easa of rackeryatal, whiah I have reoorded as need as a protection pgainst falling, and which has bona reportelt as a protection against the works of evil superastaral heiags $t$ and that it is also so in the esses of some of the other amuless now used against stumbling can, I think, be shown at well. The originat (or st lasat an early) purpose of tho wraring of the little ball was the pratostion of its bearer from the stackes of arlly disposed supernataral beings seeking wesk of belpless pemons whon they could tujare. We have rasson ta sumpeot, tharefore, diat the botelo-grand, like a number of other muglatio abjeuts assal ro-day in Jupan for emore or lesa apocifiv, bat mibor, parposes, wse formerly suployed is a shing antipathatide to ovil upatral heing of many (and perisps all) kinids, ani thai to preseat emplaymant "Bgalnge strmbling" or "injury by falling" bs no moot than a relle of a mash wider sphere of sppllention. Tha use of tha goard by ohldren sams to conffrus a mupialos of the kind, trecasae a dénogiagt bellef in a magional opanation of more or hes genaral application often flude jte latt exprenaigns is materil sonoectes with childran. And the use of the goind by ehheriy paopla aemen forthor annfirmintlon, fenanse fudlog rail-a colour whals in used io Chine and Jepua as a protectien agalnat the atanka of avil nupernetoral haloga-ailh work by atd puapla jus so is is woen by obilifen, we may asume an probnble that a wesnon timilar to chat undertying the maglonl employnent of nut nedarilas tha magieat smployment of tho botife-gourt, whigh is libewine warn toy the agod and the very youg.

Thas the botchergound was formenly primarily an umulnt genarally anterapotrnt In pharacter woahd nemn to lje shown by the fout that in China (whove the phild'n



 At Foouhuw "The gourd-bbelh, or a peanalag of then goind as wood or papor, " or as omall woodon groerd, or a paper out in shape likfin perpeoilloular seosion of " a goard, or a paper lantern made in shape of a gourd, in in frapusaik unin . . .
 ${ }^{4}$ nbout shair persoas a representasion of ploture of the gourd. Tba shall of thif " vegetable if sometinea limg up sear the plane where the clididen who have not ${ }^{4}$ gine hal the graulf-poss sloep Juring the last night of the year. This cantom in " "xplained by the Chleese by anyigg lani a earsain got of the amall-pox and ${ }^{4}$ moaslea will 'empty' the small-pox Inte the gound-luell, and not late thase " niblidrea, if the should sbaerve one ready." Is is warih abserving, in somnension With then Foachor praediees, that the gourdabell, and the suall wooden goard, are doplisatel by Jopanasa amalets, whilla the paper eat in stanpe like a mootion of a gound in parallelleil very alosely by she gouni-shaped maigo-fida ; sod, forthar, that the "god of she small-pox" cetorred to is au uvil-working demon who hat boen duifod by the Chlonse-sa, sotnotimen in a more of luss modifiel forms by other Aelan peoples-bsonase of his powor. At Amoy, gounl-blipied objeots made from wond eot on the fifth day of the fifth manth, a bisto peoulinely propitions in matters comeneted with protection sgaicst evil euperinatural beinga, were wore oa the birenast an

[^15]1 Dosittle, op, atit, VoL II, pp, sis, ath,
amaletr, togethor with rmail swords-potent protontiona againat suith beligg in gencral-made of wood of the sisue kind." It ja internatiug to ohserve, fursher, that the Malays, who have inany belleth, whethar of Malayan or of Chisese arigit, rememblligg thote of the Japmiste, inolude the skin of a botulo-gourd among tho materials ueed for fursigating an infant whlah cries and will oot take ite tood, $\uparrow$ becouss the symptoms mentioneal are among those gtrifibuted by theal to the attack of avil Eupernatural buingw,

That injury by falliag was, like mang nther nrilo, formarly lowked wipo an one of the eiflecte of the agtious of auch baings in indicatol by variong Japauese beliefs of practions. The nane tides comas out dearly in a rosord cancespling tha Koreana, who bave many lieliafe stouely resemabiling, or at lowst founded ofs tho exwe soaceptions he, Jupnasan balieff-perinan ont an a Lilldile cuting wood offez ap Itule of their food, betow partaktog of it, to the spint of the plate where thay aren, fearing
 otiogr acelilent," $\ddagger$

 rither than agalust any one speedfied avil, uesk a satifoctory roshon why is should have lion monted as eubh as analec. The wido djeribution of the beliot in the proservative vintues of the botilo-goind Indiontes that che belis! ia proluhly an ofd

 with fuadaaental conceptione of the several proplan anseng whom it is founch
 the emploganait af gourd is metles. Thit sende withia is dried gruand, striclug aguines the shell when the gourd is ahaken, make a nound whiel lise nthaned goumb to lor belaeted as ratsel, offon for abremonisl purpunth, la various parts of the world. It mame pesible, tharulare, that tha sumud given forth by the goned may, to itself


 gonorally regerded an of mast servive to thio warfare againat the unsoen, not quantity. Among the amaletse belle of Jopaneas or Chisese childron there nare some wateh
 thena-almost equivaleat to the mern selagine of gonrds-in the bell, tor 6 Jopanane iofant, minda from is piece of doo abilar of a noered dear (a matarial In ltrelf demod preservative againet ovil), which man be beraly heard mhen ahakna. It mome posalde, on the other hand, that to the goarl osed an a ratule thure may bave armenatly been attributed mpanial virtuas in counetion with tha driting wnay or the cootrol of aril saperastural boingy during rangieal or dutiog religiont eeremouies, and flat beause of this the gourd wes looked upon as a mingien instrumant, and came thus to be applied as a porsohal matet. That a gourd nould serve ha a chuld's toy an well is for the ebili's proteotion would have provided an addicioical roseon

[^16]I Mry Bldbop: Teree and Fior Noighiwerh, London. 188s, VoL II, p. 244
5 Thay finage of foarls, as watl ss otber objocte, are male of this muterial.
for its assucintion witb ehililhoos; a number of examples of anti-demoniacal objeets which have beoutae consmon childron's tays in Japas could be citell in support of this almont strious conclosion. Thie geheral form of the little amuletis bells of Chinese and Japsaese abildren, whiols is evidently a traditional one, lende support to the Iden that goards were anciently used as acmuleta boanace thoy actod as rattles, for those belle conalst of sbells of metsh, shasat pompletely elosed, containing lones strikera f tbat is, they tre yot open-mionthed belle with clappers, bot ase meraly small metallie ratiles, and not improbably derived mora as less ilirectly from mattes of vegetable origin."

Again, it wooms posaible that the Far Esetern amployment of the gourd an an monslet may have origianted th the goordly employment wo a eontainer for sebastancer to whilh preservative or other vipraes wesa ateributedi. $\dagger$ Primitive pooplas vary oftesi

 oesealonally ulag asoll goanin for the parpases. If tha Chlnese asciently followed B practise of this kthd, o mintural and' logieal devalopment from its and one which woold parallel the developmanta in the case of emrain other amoleto obfeota among the Chineas, wonld bive been the see of ampty gourda (with thale mosthn kept eloed, so that apootral beioga, who are gancrnliy loaked uposi ar belsig in many respecta mathar atupid, could pot hnow the noutente) and of effiglat of garias.

The goint is mentlooed in the norita of a oortain fire-preventing servion at one
 the evil workin of her earlier alifid, Fire, blat It [atralumian in this eonesetion
 II, not estirely, to les value ail a veavel for bolithg watat. Sushe-gaunle obenir in

 thes those asdertying then maglegt applontinus of the butitargond whieh have been ctaressed above.

W, J. HILDBURGE,

## REVIEWS.

## Indin: Naga Langunge.

Pettigrow.
Tanghhul Naga Graminar and Dletionary (Ckkrat Dinket), will It istratice Sentencsh. By the Rov. W. Petugrew, Amerlean Baptish Miston. Bhillong. 15 1918.
 knowledge of both Eaglith and Tangkhul Naga sre Cew, so that we noght, nu deabl, to be grateful for such a work+ yet one eanost bulp webhing that the author bad hams better quabified for his thak.

The explanstions are sunetimes ungrammatieal, and oftea obscures. What, for instanees is the unluthy learuer to make of the followitg on pege 3, under the boad *Pronumation ${ }^{41}$ if
 (como), and in molified verbe, auoh as yam-zint-ma (whilked awsy), whea olanged inte a verbal adjective, is obanged loto $y$ dm-ka-tho."

The prefece retens to Sit George Griarson's Linguistio Sarvay of Indis, whleat has alroady dealt with the languge. It is to be regretted that the wathor has not besefted by Sit George's explanation of the twrotare of the lunguiges in this

[^17]gromp. If le had le mould not lave writen of eases and mamberf, voioes nud mocds and teases, in treating of a langnage which is husoceat of all thear thingar
 Govermment seboels, who fuveuted a praln-post-perfeet in Burmese; bat he pressutis na whin elght gasen (he might as well have mide eighty) and a potential roood formed with a verbal suffix inething $"$ to to repponsibie."

Numeroas boutancas are giten in Nagu asal Einglith, sul would be very usefnl if the granimar were bothar dealt mith. In a laugunga of this group a sontesce is largely made up of particles. Many of theie have un equiralant on Euglinh, nad tho leginner finits it very diffioult to asenstain their mesaing and use infers thens we explatned. Tha mara axamples there aro the heiter, but examplas alone ave Iubu flivient, espesidly if no isulication is given as to the mening of other wonls in the sentenos, To look up the wronds in the "diationary" nt the and ot the book is more Ilikely to white the learuer's time thas to halp bim, at prostionfly all pastioloi ara excluided froan is. No doube is ie diffeals to daal with these in 5 vocnhalary, boonges fow of them ere capuble of being travinted into a singla ICaglish ward; bit is is a diffealey which ought tis be fand, It any le wint ly writhg yotea on them, eathor noparate or appended to seatences, and reforring the unir of the vocabialary to tbo paga of

 If the Sugu-Englinh roesbulary) aud yeorse of othors alght well have been omitteit.

Koyn to probunclation prepered whoon no kowledge of plowesias we hoond to
 koy-worl. On page 2 wa lave "ea as op in e-gfo (Latin)."
 "strenen, sh thine differvice san saly be proporly learnod by oir." An appliad to fous which differnatlate the meaning of warls this sisiesurs io the raveno of the trath. Such times mast has markad, it the student in not to be intolod from tha bagiougg, Bed uside to form hatits of mispronanelotien which it will be dilfoes for him to sendisate laters. if is probally not too mash to nay that, thaugh is Burogons with a good ous may learid th speak thean langaagen sorrvetly in othar
 wordf in writiog and the tonch marked.* Dulems thler is done he onanot dlatigguieh the toans whinh arn asonatial from thone which are aseideatal.
 of uning miscallnseous Insoy apellinge, whish reprosest oo detpite somind, and nelopted the stphalet of the, Latersational Phouesle Anmoiscion, the only 500 in wide ane io abis cuuntry wbich cuab be auld to reat on a scipstifio hasia, The ulphabest is
 knowinige of ploneties is rpreadiog defily, and she younger man who go ont to the
 ${ }^{4}$ ten gonrs byutematic instraction in phonetios . , , his formed part of the oourse "th the followad by stl Scotish temhens, whother Pifimary of Seoondery. . . . "Invtraction in phonetios is now gives by sagular mumbers of the staff at mont "Engiek training-oollogos." The quotation Es from page 24 of the reonetly pelaished report of the Modem Langrigges, Committe appotatel by the Prime Mtiniater, which recommends that "an adoquato thiming is and mastary of phonstica" showhe be

[^18]guncuileed by every normal bertificate (page 63) ; that " phouetion form part of the ${ }^{4}$ raising of nll entrants to the pablle serviog whoee dity will lie in forelgn " eountrien " (parge 64) ; and that "s thorough knowledge of the sejeoce strold form "part of the sperial training of relected enadidates for the Ibdian Civil Servies" (pago 13), It may be added that the Board of Stady for the Proparation of Misionaries hes for zome yearn beld aummer eonase inolnding phoneties; sul that lectures in phoneties and prasical alsagea are now hold throughout the year at the new Selonol of Oriantal Stadias in Finabiary Cirius. Aldhough, thengfore, compriztively for of the older generntion are farillar wilh the alphahes, sod thongh it is eogetantly bang ileveloped, hupraved, ind extandal, it is lukely soon to be, in fts main fraturas if leash, as univenally recognisod as our syatom of potation in masiet and writars on languages will no more thank of askg lations (ineliding ondinary Romas loteders with diacritical marke) (uyentail by thomselven, ne of giving thair own valous to Jettern, than a masiclan would now pabtiah a pleon of musio whole a notation of hif own, or one in whigh diferevt valeas from the ondinary are given to the motes and other zymbols.

One of the international aymbols, of bail been used in thie bopk, thaugb inconsistontly and with the efrone日tis atatement (on page 2) that it han beon adopied by the Royal Ablatio Booiety. The alpbabet was recommanded by ine in a paper for the Soeloty's Joyrgal ("The Uie of the Rqman Charanter for Oriental Langoages," July 1918), bat offolaty the Soelaty han to bar only deveted ite utiention to the twandturatos of weletan Inagangec. (Trmnalifarniton has nethiag to do with the


 denls with in Tho Asiatie Quarforly Revies tor Jamary, 1012 and in The Jodiawan of the 24eh Jaly, 1917. A koy to the syoteme priet $8 d_{0}$, In obtuluable from Mr. Dentel Jonea, Reader in Phoneties at Laedas Caiveristy Callego. Tha paper for the Royul Asiatht Bociety, moblioned abore, may alno ber bbtained from him, prien 16. Gd, Mr. Dnaiel Jonen lina bimentif dealt with the nabjeot in an artielen entitled "Thie Vilae of Plunetien to che Language Studenh," is Ther lnermatomal Roview of Miscigis for April, 1015.

A warulaf it hara seeouneg, It wonld be better that the Intarastional alphabet
 iftuorant of phonosies. But il these dayi mo such perion ahould attumpt to rednce
 vanove the roprouele of ignomien frow luanelf. In India fscilition for the study uf phoneties berdif prist, but it is looped that thie will not loug continne to be she сазе.
B. GRANT BROWN.

Taxila.
Marghall.
A Guide to Tarila. By Sir Joha Mershall, Director-General of Aruheology


There is mo asciend nite in Iadis the sciensifie exeavalion of which has been swaited with graster interest than that of the great dity of Taxila, which lien 20 nailes norrli-neet of Rewalpindi, in the Panjabs. Its name in Sanskrit, Takkasila or Tpkhasilh, menalng prohably "the eity of eat stoise," matrks itt importanes. It is mentioned in the Mah领hinata; an inaription in Aramais sharsoters of the
 the inflamed of Persia. Ie تhs captured by Alexander the Graat in $326 \mathrm{m.C}$; it was of muels imporlauce under tha Musryail empire, Bustrian Greaka, Sujthians, and Parthians, and it was tinally destroyed during the inviaion of the White Hurs
aflee 455 A. D , Mach damsge was done by ignorant explowers, hat arost of the city has now been carofully oxeskated under Sir John Marahall'x supervisiun, who givot a valuable acoount of its bistory and bapograply. Amagg tha mast intoreating discoreries wece a steatite vesael with a pilver yase isoide, and in the panc an inscribed seroll and a small gold ansket onataining nome minute base relica, the fnaoriptiou being dated about 78 A.D. t the remsing of a palabe bariag a sotusilerable resemblanes to those of Asayrie; a ropreaentation of the ilogble-lieaded eagle whials flras oveirra in Hitite arl ; an Aramalo inseription of the fourth aentary me. ; a heal of Dlouysurs is pilver repousté; tome fune jowellery; a tomple mueh resembling the elasalaal iemplea of Greeor ; and unothar templa, appataotly Zorsaatrias,
W. CROOKE

Lan Islands: Folkiore.
St. Johnston,
The Lou Islands and ideir Fairy Tales and Folh-Lert. By T. B. Bt. 15
Johaston. Pp, 145. Loodon ; The Timen Book Oompsay, 1918,
The cultare of Flje arising oid of a mixture of Molannaius and Polyusaina elements, bes a apoolal shareoter vary different froin offhor of it conatituoute. Tho talae reconiel by Mr. St. Johaston, from the more Pelynaian inlands of the Luar Arehlpelsgo, nhaw ibis quedal eharaeter elearly. Moat of thom doal with the dolagi of Pjjlae gols and with thair rolatione with the hunan Juhsbitanta of Fijh, ant ravail a concopt of tha lighar powern diatinetly difforent from that of Polynesia, while the ahisf link with Melanesia it In the meoount of megto and in che truideatal appoarance of a supnmatural nelaver of young ssen, had beliefo eoneorning the deak), whinh arn frequant thames of Malanesian way hoolag.

The talen are rivorilad in free truaslation sbil To a literary fopm insonded to uppral to repalar folereet. Mrast, Jolanion tinelaims the mile of the athnologhin, hat the atories he relatio nes oaly give a vivid jletare of Lamen helfol, bue ateo reoord Iseldentally many facte of gront netbropulogical isterent. That, we are bold of tha anelent praatien of liarging ablefe in groat cascan, whicio were then dragged
 features, sumb in the masensty far kanping awny from the ata and the cobstant
 the tales now reeorded are melanted from is bige leok of noten. It in to be hopod that we may bive other selantions from thle notabluak, and tbe antliropologint will
 free tranalation isto litarary Eoglinh in apt to dlaguise masy tonches of untive thought of grest value to the siudent, whethar thin value be to sesiat exsetnena is eomparignas with olher logatitiea or to roveal vilh filelity tho concopts suderlying the manufold socinal attivitues of the peoples.
W. H. R. RIVERS.

## ANTHROPOLOGICAL NOTE

Acoksetons to till Lameary or tiln Roysl. Akytnompootoal Insmiote.
(Donor indicuied is parentheses.)
The Turbes of Central Asin is Mistory and at the Fresent Day; An Ethnological Ingwiry fato the Paw-Turaxian Froblom, and BuOliographient Matgrial relating to the Earrly Turks and the Present Turks of Contral Asia. By M. A. Casplieka. $9+\times 6,234$ pp. adi Map. Clareadon Prass. 15z. net. (The Publishers.)
 184 Illustrutipes, 8 Platss, and a Map. Goarg and Con, Bels. (Tbe Anthor.)


CLAY HEADS FFOM METEPEC, NEAR TOHIOA, MEXIOO.

## ORIGINAL ARTICLES.

## Breton.

## Arohmology, With Plate C. Some Mexican Olay Heads. By A. C. Broton,

The small clay beals, found in grens numbers is the fiolds oorering the 17 aite of Teothuncau, we known in musemen chindy from mes type with alonely shavee beed, alfboagh there are aevernl otber kinds, including same with elaborate haid-lrosaes oharacteriaing eerlain divinities. After lisving vinited many macient sites, colleatlug the amall objects hrought to the mirfece yony aftar yoar by rain end eultivation, it may be anid that the shaves lumis are poestiar to Tentilunamas and are found nowhere alas.

Is fiehles near Otumbe (hoyond Tentlanaman) there was nenth a prefosina of rlay
 barketa foll, whilat bringhg away a vary large fuaatlay. These wese variad in elarneter. Round Tlaxeala, witbin a radiun of five or six milas, on niment overy bare apioe of topolati, small heada, humas and antmal, were strewn abont. On a bill somes ailes from Aplaneo (north of Thexcala), theno muat have benit an altar ar temple to a goident of mareraity; jodgiog from the fominine Agarises which my sarvail fosid thars. These Were sent to the National Moneum at Wanhingtos, but faltod to arrive.

Almast avery site in that region liat la diatnetive type of the lifta heads.
 the smoustains that shut in the yalley of Moxing to dis north-wiat. Althongh mach battered ond arolaic In styba, they nere worte xopeoduoling for sbe treasoaet


 flac. Dedirateal poth neit "Idols" were duet up at Kotepec, bat were earried off by nn Amarian guthenor pbout twasty yaara ngat. The filt had leon long ander enlivation, lati wat known locelly for the moniquitied found Harb.

Mise H. Newoll Waellos nf the Museose of shem Aeademy of Seineees at Palladopdith las lonkend over ther large Moxionas poileotlone, and fudn ouly three cloy hands the eyat of midah sre remted slmblarly th these of Mfetapet, with Eurrounding ridgea, Only obe st thene has the stmite rialge No provemanee was gives with them when temeipen by tien mosemm.

It in worth acting shat the vative bendh, belid (by the long bliek haie) ly tbe fifuree on the Iea Espestrias," have slouble nyen. These are two white quadruggolar epreese encloned by a dark line, which naso ditvides shets. Noas of the many ithor eyer in tbnas sappatalea iere a0 troated.

All the Mexisas olay hoads need to be anen in the assae tigbting in which they
 light (at le s manoum), the delichte detsiln do not nhow, and they oome out baily In a photograph, bat when esen is a roos lightad only by a door, Moxican tashlon, many of these are surprisingly rivid, and yeal works of arh. The beada lilnetrated are fiom iy to bearly ? em. laigb. No traoe of colow remaine on them,

Also illestrated in the Plate be it pollshed stone frog, purchased at the Indian town of Znontans, bear the nerthers border of the Stnte of Pobehia, and ou the edge of the berranes that ende the high platean thete. The nueient site was covared with young barley tot the time of my visit, so could not be finventignted. The frog is of uaubally bard, elose grsined rook, npecilis gravity 2.845, and appearn from the shape fo have beers made from a celt, It is a rare specimen and I gave it to the Sational Mrasum at Weahington, where it is anaon若 their best polinhed stook

[^19][ 381 ]
nhinets and is she ouly one of its kine. Tho dimension are 8.3 mm . hy 4.3 em The hollows sbow as pale binek like moet Mexicas envingu. There mere ouly font digita on each exiremity. Tbe offaiale of the National Musenta kinilly permitted me to make all theee drawings during a recent vinit,

The frog is intientely pacceiated with the soming of taill in Mexico (alao is Pori), pad tha sporimbn bas handa aplithed in a priyivg alaifudo whilst the tongue hanga out as if eith thinst. If in a faes what tha troge croak at the ond of the lmg dry setsous wheu avery one is looking it bbe nky and bopiay for is shower, and eatile in the fioli, low, "calling the puin," Mexionsa say the froga proy for ruitn, and in Thenas the eroakligg of tho large frog le a wive sige of palu whllin tirec days. Thair contented thankfal chant aftarwnrds sopady quite differently,
A. C. BRETON,

## New Mexioo: Folklore.

Mothere and Chiliren at Laguna. By Elail Clowy Parsons.
Wana'y baly wes two weokn ald on wy last (19IB) pisic to Lagrona, and 18 as the baby lay in her belooofed board eradle on the door of, utill ia har cempurtuent,
 short experienee to waye with biblon in general. Like other Paplile Inilas bablea, elien had boou takon outdoors asd premsatoll to the gods. On cle fourth morning of

 upper room of the twoutoried hatase bla atar peppopernalla, Wane made for me the following diagrame of the altse ;-


The tyetik is n fetich or syaliol af the delty within the esrth, a derity who is to the Keresans a sumee of belng and the most revared of nll their superaatarals, najpa
(mother) iyviliku. The symbolic iystik ie na sar of oora wripped with unspun cotton and set in a litule buekakin aap. Whea set nots on an altar-she only tima ic is exposod-it in dressel with fenthers and encircled with a ntring of yreclona beadsturguoise and white aboll bands, logeikev with olivella ar almione shella. On sither side of tho igetik io our dingrammatio altar is a fint knife. The fint knivep serva
 iyetid or nlay agninst wifelies ar evil splicis, The central line of meal la er roadWay for flae hapisAtniya, the bemeyolage papernatimals, probobly in this case more partioulsrly fos naliga fyetik, to nome in by. Usanily os altars the weul roal leadu from the eatst, tho altar fgeing the sanh. I coald not learli why in this inatance the alsracterletio position was changed, In myh, to be sure, naiga lyetila lives at salpenpolime (in the north).

Is the diagran of tiae altar a medielug-liowl thould have heed represonted, an from ith ont of his shall coppt the ahieanaa aknasi gava Wana a drink, sail from it with his ragla Fathere hat also asporged methar and olyild, swo Hete rites of ongisat ogserrence is Poublo Indinis oeremonials, Aceorligg to nee Juformant ghert should
 intants

After the prallminarias at the altar, the oxder of whiel I coedd get with no

 Gotaitas, she heal of Wius'n heasilolda, un ofd lady whom, in scoordanoe with




somisk nitaniguaishef mabgatan subints pmo shlonaipa nitanigroisbe da my douphter prow up doidy all the time thita boant groto njp this
 mysulf sun slan thus,
"Naw Mothar [Fgetif underibouly, Sou, this marning I am goieg out. I wand tay danghter [tbe [efanc] to grow day by day. Thad all the tome 1 wane ber to yrow. I meyeolf am of the Suk chen. I am Gen,"

After aprinklige meol oe the gromed and making four fimm a dironlay getrere rith toth hade raisod, pelme upword, to the Rast sad drawn beek, arleablistio iavitation to the hopishleciyta, sail sfter breathing on the infant, th the sheand prayed as follows :-

Berd give moilher [iyetid] father [Sun] tâat is all good relationstip

[^20]tuityn taitew hasonatakonishe emites shkutsipa gaiya naiahdiya towis* of valse goodress people naultiplying /Air way want mother fither take. iani eheowa lasaie हhlcutaipu-
road tahe tifie ate wout.
"Hees I glve $7^{\text {ou }}$ tha child, Mother tyotis, Pather Sun. Thini in all. Good and valuable relationship (Le., of kin sud slan), guodness, inarsasn of prople. Such I Wunt Mother iyetis, Father San, tokd the road [of the ehildi\% Hfe]. This. I ask and want."

Tes oerunonish requiromenta in borinection with or Enbseqqeent to the rite
 waph is oummonly raquireal leetore Pasble Isdina becemoniale-nidl before the rita and atber, for twelve daye after the births the wanais in axpected io be coutineat.
 Ware given is parga by the isadietinas mas.

In thits prissantation rite there well дib reforpoce in nsaning the lifrask and wheo 1 maile the nuguainsnoe if the liaby she liad net as yei buen giran alay name. How ala would get ber Judlase pime I ala wot huar traen Wonst but there Was talk of liew In course of the sbe would be given sil "Áméribas" naine in baptiont at the Cntholin stramb. Watav \%oulal bin pris to har houd and sulf
 to her lipe and the Spianith godpatent institutina rould be entered lato. Every Ohistmas thereafter hor godmoshar, bee mothertb conadre, would give hat a present-and her mather woaid give a rotiona presont to har godmether.

Lagana ohilidrem, like other Pueblo Iodian ehilitrow, resoive obher presents, presentes of a more clistinctivoly native ahpesoter. While a ceramonial by misboud daneers or koiena is nigier wiy, parents will ask one of the daneers, porbsps a

[^21]kinamon, to make a bow sod arrow or an asweh (it bahy) for thelr child-how and arrow for a hoy, awtoah for a pirl. The parant sulplies the materlede, and in pelugg threan the danoor bays a preyer for the good of the elild. As anong the Zufi or the Hopi tho dolls ropresent the kaisena themselves. Fig. I represents a male impersamator ailled sajeish. It whe made In the autumer of 1917, during the yakakrna or aors danos, and until my visht a few moathe later is had been atnading on a shalf of the oldid's Liolise. Fig. 2 represente is Avekinninatu or girl katsonac. It was given me by the litule girl who hud been playing with it. Fip. 3 ropresante the ieldwa (ariow, how unslerstoni) given by the kaliena to boya, to beya pael infakuy; to bsby boyn suoh a gifs, it is helinved, would lingg with it lifg-lng bad temper.

By an bldorly informans, tomadre by the way in eighat familias, wan saty for the the iwg tallowing fallahien :-
bawi hawi Lawi-1 amu maku atowiminase uwitalmikia simanakopheri
Tho who roto dear be quirt tarquaise haby board on hueh ubowainl it e a shawimisateg uwiteimlkia,
take sary twrquaiss baby beard was.
"There, thares thares, Deas ixe quieh On a surquates ${ }^{\text {B }}$ baby hoerd Fais, thene asa On-in targacian labloy board."
 Whe who who pird why angry midy ropoions, trial dear
 giel Aere hert wild resis Aere here moonlight floedrt give ubulewoya atnit,
tokn dear.
Thers, thare, duepe Gifl, why neto you angry Why are your saption, dear girl !
Hores lisese are wild rones
Hore, here io mounlight
Tise flowert, take them, dear."
My siognt what kowiog sad sommanioativg noquatatanes. Dellke ibe younger generation at Laguas, alse was internated in past or passing cuntnua Varlous beliefe and proutices is ounneotion with mothers and allitiren of whith she told neem worth resording. If a peagnant waman sits with her baok to the buu tbe plaosuta will "tifok" Hopece when the plocosta is retarded sumeoar preseut in apt to sisy, "Perbape ale sat with bar buels to the san suicl the sun baked lher back." Twing may be due to witcharafs. A witch will make two balls of oarth wet by erine and roll the balle in the direotion of the women who has ritinated, Hened uriunting in the rosd is disapproved oft if a latoy is born wift toath it is a sign thas before haid birth his mioher bas looked at a sanke. Parental indigergtione of this kiad are flan ptock explauation of engenital deformisied at Zusi.\& My Luguns informant explained only one anae th thls way, the case of a sbild bern with s pleee ont of

[^22]Wila zar, the explazation being that his fosher lisd gone ont shooting iuring tha preguancy.
\$oor after the birth, perliapa eres the firss day, ashee will be pubbed ue the ohbld, ${ }^{*}$ rabbes in the form of a croses on farehosd, on suln, abd ou lega-witchen山islike sblies. Aftec bearing abont this witcheraft prophyinxia I saked Wann und Gelaitsa if the laby hat been ruhbed yet with mehes. "No," suid Wann, "hat maiya " bas been thlnkhy alout /f." The next morning thay told me the nabea lind lieen rabled on-colited on the forebesd, se I saw when they showed me the haby, Jut b5 of Zuni babies. The whes were not'rubbed on in the form of it eross, rior wara they mbhed anywhere eles on the body.

 Thalese. Onan a golohild who was out berdleg shimp had Iiee in bis heiris so "hoy" en it ahari. His mother fels greaty distreased, and exchenmed to ber somendre, "They scatterad my Hood and my halth to the four winda!"

Paraurly of Taprana, in the day* when there were po tables and the houiehold formend a clrolo arabal the bowls on the flons, eneh kneolfog on the left keen, nono Woukd dribis uatil sating wis anomplished. Aftor the meal a sonior might toueh the broast of a olild and eay, "Now if alh your food hase gose down you may drink," Thes or at sey othes lime when a nonior makel a ohitd to bring bim or har a driak
 "May yon grow tall 1" Tanina (gooil, (.e., "thanks") reaponalad Has jashor,

## THBIL CLEWS Parsons.

## British Now Guinoa.

## Fhint.

Muguru at Tornbina, Bamu River. By $\operatorname{Ln}$ A. Finh.
 maguru was to take plaee lo the Fillage that bight, Alté conalderable peranasion the buifred allawed mo and in couple of tha police to view the sercmosy, asd I Weat thare at nightall.

The intecioe a! the bullideg wan deoornted with erotans and vipe palim leayce
 deconitionis is mumbur of whous soundod the dibit. whist athare kept ap a nong for about an bour ond a balf. A native, who whe evidently than tasatar of the oppomonies for the oight, thes went to she other sad of the dube, and the other mun mored to the will and sat is a liee. Aftre walting for about tom mioutec swnity-one pude Wuman, bach aserying a torolh, toarchan twa deap up the bullifing to where the inen were Biticig. As the womens approached, the men hegan to stag "Ob, Oh " for a conple of minatea, when thay stopped slaging the neen fumped op ased sech nialmad a womat.

Immedistaily ait she lirbs wofe covered up and all was in eemi-darkwnss, but it anw the aatives sopulating, and the youig ehildren who were preseut miso wituensed is. After fifteen minatee hed slapted a kilit was sounded and tha fires brightened up: the women returasd to the far mod of the dubw, and the singigg recommenoed

[^23]The silue earemoiny was repastod sbont avery two hourg till deyloreak. At oertain intervala during the night a native, who held in his band a bow snid some strows, shased aloug the builling io a erosoblug position, seother vatives The fugitive purpoasly fell down three timea before he resched the phoce where the ather men wero peated. Ench tims he foll the ochar nativa protondod to endenvaur to hava counoction with him, to the jreat amasempent of the epeotstars. This part of the aaramsany is called nionai dufu.

At laylight tha onaze of than dnōu wus neresied off widt nipa lenvas. The edder people gat at sue caid of the dubu, the youngor ones ut the oflier, in order, so I wss faformed, that the young chiliswn might dismin what they had teen in the uifht.
 and dagghters who wire heing mairied.
 should lemm how they_come lato existenee, at whitsi witisenslag the eopelotion nativen explain to the chifdren who are silitg sear thum how their mohers banome osereiata; adyle relatieg to matrimonial matiers is also tendered as is migitio.

At a wegury wivge are exchangnt, ned the gatager Wowies phas tempornerly into the ponienion of the older moni The meguru ceremosted contlone for usia ruoutb. Oe tho last night a nomber of woulen figaren-iwo men (Aglor mul


 ixplaineel).
A. megurw in slony habl ripoe the oomplation of a now dibN. L. A. FLINT.

## Oontral Ameriaa! Ohronolosy,

Lous.
The Highest Known Maya Numbers. Ihy Blohard C. E, Lamg, ua in iwe formes uaen ( $\mathrm{Max}_{1}$ 1013, 70 and 74), nad the oorrolation with, Chithtian dironology unol th thoae paperp will be applied th the sxirnambly interenting diagasaion by Mr. Mopley (Ar Introductipn to the Study of the Maja Bioroglypht, p. 116) of the date on Stela 10 at Trkal. The din pumbur in this date is minning, and taiking this an 0 , be roads the unmber es $1-11-19-9-5-5-2-0$, the lawe part, ros,
 date for tho rere polat of the whole of thia fumeses simher.

Naw, it the wase metbod of solving Maya datee all the oven malsudar reank are fint mobtrated, no as to lenve a conromieni number to deal with by whatevor metbod of solving is ased. Tise table of enlandar poond multiples given by Mr. Bowditeli only goes 吅 to 80 calendar roands, whith ie insufficient for uumbers ranoing into groat aycles or opwaris. If the number ls not wery moch granter flan 80 calendar roands two or more of the meitiples ann be abldaul together, bat this is impraotionblo with vary bigh utumbers like the pressut one. To sonstrnot a table of malkples of oblender rounds rnaning ligh saongh would require monk labour and a very lerge tohle, taose of the patrios in which would be treless, as the axtrensely high numbera found are so few. The following method is bere saggested, which requires only a sbort tuhie, sod in capsble of application to sil numbert, however large.

If the Maye syatem of numeration was purely rigesimal any nember in the asual syatem of tracseription used sould be multiplied by any power of 20 by
mioving it sa many places to the left and ndding efphers, jubt as is clone in our Cecimal notution to multiply by powere of 10 , The broalk in the rigasimal syatem
 coutaini no odd uefwas of hass. The namber 2-7-9-0-0 ( $=18$ calondar rounds) in auch 4 number, and lts multiplea from 1 to 20 ars givou in the amoxed table. Any number in Maya notation la this table cas be multiplied by any power of 20 by simply woving it se macy pleces to the left and sddieg oiphers, This an be appliod to the redaotion of aumherx exceeding 18 anamar rounda by abbtrneting the lergest posathle number lo the tulile frum the Arst fiva pertods of the numbar to be solved (or from the first six periods 3 f no nambur in the tahle will go leto the firnt five), then brliging down the sext pariod (or the next two ar more pariode if required) of the sumber to be eolved, and: writing it at the right of the remafodac and sulbrsethg tha highest possible namber in the toblo from this new number, and at 001, till a recainder leps then 18 calendor ranadg is obiníped. This last ean be daall with by Mr. Bowditeh'r table of onlendne round multiplea. The grocenn in in fuct long diriaion oaing Maya notation. Applying it to the present case we haveNemier to he solved . . . . $1-11-19-9.8-6-2-0$ Froin fint 6 periodn pubtreet is dimee $2-7-9-0-0$ per tahla $\quad 1-10-16-17-0-0$

Ramaindar wilk next period (2) brought down * - $1-2-12-3-6-2$
Sabtmit 9 tlaues 2-7-9-0.0 . . . . 1-1-7-1-0-0

Subirhal 10 thmes 2-7-9-0-0
Hemuindor (whichis less thim 18 calimifar roumde)

- 1-3-10-10- 0-0

Sublimet 10 onleoiker muede per Bawdtele table

- 1- $7-16-2-0$

Hemaloder -

$$
=1-6-T-6-0
$$

 of volving. Thb beat is Mn, Bewilitot's (Tho Numeration Calendar Systom and Actronomical Kxamledge of the Mayiks, p. B0es).
 29 a.d.), so that the earo polat of the large number of sight perlode ta founel, by soiving for the ramaiader $1-A-16-0$, to be 5 Ahat 8 Yaxkin. Thie sero polat would

 to wall the ore starting from 5052 I (d n. . . the " Batended Connt." The prinelpal points reached and passed over in the Tikat Insorlptiou are therofors :-

> na

| Zero yolsi of Extended | Co | duau | 22 Juno | 012164 |
| :---: | :---: | :---: | :---: | :---: |
| 1-0-0-0-0-0-0-0 |  | 12 Ahsal 8 Cuh | - 31 July | 2888160 |
| 1-11-0-0-0-0-0-0 |  | 7 Abaulu 18 Z ${ }^{\text {dp }}$ | 3 Notamber | 15845 |
| 1-11-19-0-0-0-0-0 |  | 4 Ahata \& Cumit | - 18 | 64 |
| $1-15-18-9-8-6-2-0$ |  | ${ }_{5} 5$ Ahau of Pax | 18.5 Jua |  |

The nert probles ie to explain why thia xero point was chosen for the begioning of the Extsaded Coont. It may safoly be nasumed thas she Extended Coand was not devissd until after the starting point of the Long Count had been already fixed. Bow, then, did the Mayas sorse to comat baok 1-11-19-0-0-0-0-0 from the lateer to sirrive st the date of the furmer $\bar{?}$. If tbe nuenber sonneating the zero points of the two shas was composed of one of esch period above the ofele, or if the whole number was a maltiple of some of the asual fnaturs msed, such as 9 or 18, it conld
be imdantood how they setuled anoin it. Bat in fact it is an odd Maya number, wo that fluld explasontion will not hollt.

Refarring to the reduction of the Thale number given shove, 36 will be noticed that is equale $(18 \times 400+9 \times 20+10) 18+10$ caleular romids $+1-8-16-0$. Mr. Bowditulh lian eloown that the Mayas appest to hase corrected their polar calendar by t onleulasion of Juterenlary lays on the batis of 25 dayk for eadk 104 yeors (equas! to 2 calendar rounds) and ons day for eech 4 yesrs in the exous, and, forther, that when this carrection exocoded a your, they dropped the whole years reguired in the sum of iotermalary daye required to make tha earreetion, and simply coasted the vedd intarealary daye remaining. On thite obloulation the uumbor of tatercalny dayn recquired in $1-11-10-9-3-6-2-0$ is flos22 vague yearn of 565 days eaelh + and days. Nopflecting the yeara, there remais 352 days, which Fould be the amonent of the sorrecsion to be added if the odlaudar was right at the eevo paint aud had to be
 far antolatid all humain history, that the correation mant be the oonveree of this, mo that the malemiar mant be sesonenil to be right at the tarnimal diate and to requiro to be emperted at the myibloal soro point obtained by andeulation. In tbat osece,
 so that thie calondar at the zato polat would requite to be oopreated by adilag 18 day ${ }_{+}$
 date the Jultas caleodar wes approximately poprech, ao tbet the sumaer coldutien fell an 21 Juas, and the 18 Juee wae 8 dayi before the poletise. If, thes, the ternelual date wan 8 dayn lieforg the relatiob, and the goprection reguired at the aero polat was 18 dny, it fallows thai the serb point foll fa-8(in $(5)$ days after the solatico, As tha differene of 4 days from she baloulated date of the entetion is so very mall, It soaran probuble thai jan Intunton of the Mayas in diosslate the sere point of the Extended Connt was to reaph a dite whloh, bosidar beluy denne no even sombur of zrebs oyoled from the sero prish of the Yomit Count, was alne approximbtely the thete of the secerest soletios. Donbtom the differene of 5 diay wrobe frome then dosire to make Io fall on the lopperthet dayy, Ahan. Is is fuat, tell on the neorent day Ahen to the ealcolaisal dny of the ablatioe.

It need hanilly be sald that the date rebebed was sof whilite 5 diayd of the true day of the solstige at the titne of the nero point of the Nxteviled Count, but is whe disunt that mount froin what wond have hees the date umealiated for the solation by the Msyas. As the date $0-9-16-0-0 \leq$ Alate E Cumhu fell on the trae molatiee (Mas, 1918, 70), and appenis to be the polst from whloh blay aleulated beck to fix the zoro point of the Lang Count, it mould bo natural that the Mayas would reflises that the latter date did not leself foll on ther ablatice, mail that thay eonsequently would then axtend theit indenlatione, neing larger aud larger perinda, till they flxed the revo point of the Extended Conat so as to fall at the summer solatien aecording to their eonaputation. Tlis explasation confirms Mr. Morleg's viaws na to the length of the perrind atiove the cycle. It sleo, bike the other atronomieal acsueations shaw io my fomser papars, adja a further element of proof of the earrectues of Mr. Bowditnh's aorrelation of Maya snd Cbrlatian ohronology. The greater the number of intelligible explasations of saries whieht eas be sbown to follow if this oorrolatien is uned, hat which fall to the ground with any other, the stronger is tha eumulative probnbility that this sorrelation is the correct ones. Heoce the above theory ss to the hage number on Stela 10 at Tikal tuay belp ty solve the sll-important problest of the date of the Soutiarn Mayi olvilisation.

It is worthy of note that if the Mayas at the time of this inseription hod uned
the syatem stated by Landa to be usell in his tima, nanely, a correation of one day for every lour years, as in the Julien calondar, the zero point of the Extented Count woold have bllen within ous day of the ententatad day of the eammor
 Alhouga such a caloulation gives on oyen oloser resalte than the foregoing is in sofer to assume that they proegedod alt the syotem shewn by Mr. Bowditeh to bava been noed in the other inecriptions, At the eathe time there is nomething to bo wail for the theory that the Leuda ibethad was used in thes laneription. Exeupt thase from Paleoqus, all the instanoss cellectel ly Mr. Jowditels of enlenlationit to restify the estendar fire in tha "Greas Purlisi " From $9-15-0-0-0$ oowarik. As to Palencque, all the "hiptorioal" dains thera are is the "Middle Perfoxt" onentnacolan at $9-10-0-0-0$ mas prior to $2-15=0-0-0$, The luecriptian on Stels 10 at Tikal is
 earlinst "hatarioal" lnsmfotion yet difooverad, and is at ibs same city where the sarlien one cesurs. It is therselare abrat 200 ynars oldar thans any of the othar
 the Mayna ased the leas agourste tulonlation of one day in avary fone yoars, mal tant at the height of thair olvilunation In the Middle nad Groas Porfode thay had adopted the improved ove of twenty-6ve deys io l04 yoses,

A shird soggetim may le offored, samely, that the date obouen for the koro point was dnecided on tosause upon it the iwo different syntomen of calonlation, whidh
 thare telag only faer days diemenos.
 obe whala girge the dste la the Exvended Counc, if le wortby of note thas 8 Pas, the month day of the vermital dain ul thle seride, fo asantly 9 winals (hall a taen) dintant lo the annusl oslandar from B Yoxkin, the mionth diny of the sure
 ieserijtiöa.


Table of Mucziflas of 18 Oalumball Rooxpes.


Is Calemiat

Rounds.


RIOHARD C. N. LONG.

## Obituary,

## Kunnard.

J. P, Johnsan. By A, S, Kensard.

Prelintory his euffernd a great loas by the donth, at the ently age of ablriy- 21 dight, of J. P. Johasos. Bori lo Landom, 1880, eduented at Dolwich College said the Rogal Sohool of Miaes, ponsideratious of health eomacilled hin to migrate to South Africe in 1902. At the oatbreak of war be whas reailent In Tasmania, where he intenited to settle, but he returseal to Jolinnnesbarg, where be diad from pocumontin, folloriag an atisek of induenza, on Ootober 18th last. At an eariy age he was an
ontbusinatic stadment of the later geologiesl doposite, more eapesielly those containing humser relice, and the restlt of his resenvolisa were publibledi la the Essex Naiarialist, the Goologica! Magasine, und the Procpodinge of the Geologists Asaociation. In the virgin field of Soutio Afrien he found ample soope. As a miniog esport his serviber were cugerily saught by prospeoting ayndicates, asd he availed lime日lf of the oppor-
 onabolleal in the Sinne Juplenents af" Sondh A/frica, 1907, and eilition 1908; Geologicat and Arrhatological Nates on Orungia, 1910 : sumi the Prekistionic Pariod in Sonst A/fioc, 1910, 2ud edition 1912. Partapia his rocet boportant discovery was the lact that a soquence of fint lmplements, differivg only in defill from that of Eagland, san be shown in the Tranived, whilst the Bantin origin of the Zimbaliwe ruinn wat elaurly Lemonatrated. A atrong sopporter of "Golithas" it may bo moted that he maintained that the Toamseiat Implemente did not belone to that enltumit aisge, fore to at later one,

Hes was a momber if the Contust of the Geologimel Soeiety all Sisali Atrona, and wis mppointod by the Soufl Affican Goybransot a membor of the Commlayion to report on the Pebvglypha and Roak-palatioga of Soeth. Alrita, many of which ara roprodeted is The Prehtrapie Period is Soweh Africa, 2nd adtiok. He was alvo a keen ntedeat at ibe Eslinglagy it Sonkit Afrias, a fuet which materially belped bim is the solutiod of many South Afrieas problema,
A. S. KENNARD

India, South.
Frazar: Achariyar,
Milk Oustoms of the Toctas. Ay Sir J, C, Fraser, D,G.En, and K. R. 22 Aefariyar.

The Toidas of the Nolligherry Fille, fu Sautheris India, sre it elanglosl uxample

 whlob the bents loy Dr. W. B, I. Mreng, is by far the folleat and the mont seleasific." Whan my Inmanted Friend, the Lnte Kev, J. H: Moultom, was In Iodiar in 1976, he spent socie time on the Neilgherry Buils, asill to the bupe that he might

 leher reached bita he lad left the Neilggerrier, bas he was kiad anoughts to have iequiries instituted by olleni on my babalf. Among those whum be interiated in the subjoes 1 isi uapecially iadebsed to the Hon. Sir A. G. Carder, mamber of the Madrse Government, who setvely axarted hmoult to prosure the infarnabiue I
 by Hai Behadur K. Rauga Auharilyar.

The point to whiloh I partieslarly direeleil ney faquiries tran the tise which the Todss enke of the milk of their hutfaloes. Among many postoral triber of Afrien the ifloking of frilk is subjeci to eartaisi uutiose rolee ans mentriotioni, based appareaty os a relution of syagrathetie magio which ia supposed to oxist botwous a bow anil liee milk erom stier the milk liss boan drawn from tier and has passed ints the stomalie of the tribespeople.t Nour the Todas also regulate the the of

[^24]milk by ne elaborate node of rolen, In liks ralunhle treatisa ob the tribe Dr. Rivara had coneluded that this elaborate ritupl "has grown op is a meaba of conntarieting ${ }^{-1}$ the dengers likely io the tusarral by this protanation of the saered eabstanee, or, ${ }^{4}$ in pather wools, as a meane of removing a taboo which probibita the general nied "nf the aubetanoe." On the other hand, arguitef from the abalogy of pastoral tribes in Africa, I conjectared shat the Tode rales ragulating the use of rallk may have been based originally of a muppanal syapatbetie- relation botwean the buffulo bow and her milk, a rolation ot suph a nature that aby abuse of the wilk wonld reast injufiously on the now asil might oven enuse ber death. On this hypothesis the olbarratisa of the rulet was intended to nafeguprid rather the eaws than the Jrinkere of tovir milk. The fequiries of Mr, Ranga Aelarilyw do ant samtirm wy eonjentars. On the coutrary, they tend to sliow that ampong tha Todas at the
 and thair silk. Whethar at a mase or lean seisole time in the past the Toulan may have huld suy guel bellof we ennuot tell, and it would be ldle to cobjectures,

##  dy Rat Bahadur K, Ramdx abeabiyal.

 far at thate animalh sere ogocersed, diere are ao reatrietions of aby kind. They wre milked and pondod by boys or mow, nhlough at edd momenor, when boys wod men

 do thie.

The milling of the fifflaloes, the utharnait of the butter-milk, ned oblener opern-



 aftarnerdn if may be takis linto the masod by women Alshough thore is no

 Tha milk and the prodiouts form the sulatantial part of the Tause' diecwy, and thase cas be bondied treety both by misn and wownes. The oedtieney huifislees may be tifeposed of by sale or the bard may be inpressed by purehane funt an thay dilet So thene fa not any peroeptible diminntion of boe animals in the ortionry herila.
 the degree of sasetity depending apua the kind of the dairg. Male baffaloes of even the suered berd are not considernt sacrel.

The Tarvali inniry is of the linrest grade, and Hey are faund attaned to many of the mands, and henoe ther aro numerons. The buffulows aetsehed to thig dniry bay be incressed by gifia and-offeringe. Thay may also be ndded to by parchane of animals, provided they beloag to thee same Einil' of nacred berd.

The Kudrpali buffaloes come next lo rank, At present the samher of berds of this kind ane not masy. Additions are not treely nosdes as enily buffnloes of this kinal have to be obtaieod, abd these wee not namerically strong. Although the Kodrpall dnarry in oossidered to ben of a bigher rank that the Tarvall deley, yet bofflubes of both these dairiet may be kopt sed grased togethen, elther near the one or the other. They may also bs milked together, provided the milk draws from

[^25]Kndepali animala is kept separate from the milk of the Tervali bend. The mill of both the herris may tha kept in either of these two kinds of daipies nad eberrued. Bot the elusraing operations should be attended to by the respective dairy priests, the Tarrali hand milk by the Taryali deiry prisas, asd that of Kudranti by ibe Kudrali daicy priest.

The buraloes atmached to the Kagvali durier are zoove saured that thone of the
 kiad und they all belong to the elan Taradr. No other olans neem to heve this flairy, Alditions to this heal sere sllowed naly whan there is as consilarable
 uddiltione have to be made by seleosiog anlmals belonging to Kagralt duities.

The Ti deiry is the highost in rank. It is nat lound near oedinary mands where people liver Gencrally thoy are very lar from oqdinary dwellfuge-bousen of the Tolas. Athehod so this dery, there are twe kindn of fuiffalona, the ierdiansy
 of the palal (prleat), as tha TI Aulry is for away Prou iveviling-linusen of then Todas, The Tt havd may alio be nagroented log parolanes, gifte, or offisemgn oe a penalty, When a calf or a buffole is brought by a persot, be le aecempaalod by buene of tie triande. They ul stay at a little dintance from the dafiry, Eefors peishling the datry they provide themaolvee with lealy swles of elther of hoth of tha plants Hedyatin siglose and M/ycaine sopitalla/a. The palol after fintahing his worli soman

 and loe drives is towarde the hanh, netar poimbs the lenty fwlys slong the looly of the nalmal two or throe thoed. if the salmat to me of the opdisery heed If is drivee foto the ardinary liord of the Ti dairy nod it nowed trie the knomel haril,

 mador of teemalas and it muy be builed wits rice whanever thay liket Hnt the
 renowh or roollog of the intirle nul mand bassas. Daring Saptysuar or Desober ni a partipaliar day milk la bolled with riee in inoss of the matide. On the siay the
 considered to be a fentival dey. In soma manda some of the Todas boil sallk by itnalf If they wiah to take it with coffoc, bldigugh it is agbibet the ordinary bastotic.

The milk of the amored buffulosen may be ased ouly by the pitests of the deing
 milk may bo bolled with rleo and eaten by the pfiest on un nuatal leadead day in Jume. Oe ordisury days be should uot drink milk inawn from the Turvali sacred butaloas, When milk is drawn for the fimd timu from a buffalo in thie 'Ti duiry, it is boiled with rice, and thits cooked tood may be caten oely by tbe palol, hle assisiant, sad the Morol (men of the Melgars elan), and not by other Todse. When new pessels suebs as pots or humboo meusures are purabesed for the dairy, mille is boiled slong with riek.

The milk drawn frisu the sacted buffaloes of the Ti dairy ought not to be drunk by aty one not orex by the palol and bls sasistant, nichuagh milk drawn from the boffthloen of Kudrpall asal Kagrall daitlen may le drunk by the prieata of thoae reapentive dairies. Ordiasry Todas may not at all drink the spored millk, and thes belleve that thoy will die if thoy drink it. The Wutsol in also prokibited from usiag the saared milk except on special pocntiona But he ls permited to
dale ate milk inizel with buttar-milk to other Todes, proviled they receiva it in the open, antside the lifnits of the dairy,
 fint alith, and after pae moath for ashsequent birthas. Even thim thay mant drink butter-ailk givea by a Marot (a male of the Melgurs elan), and nfturwands milk. Prior to drinking the bather-milk and milh a juorificatory eoremsay bas to he gone through lig the woman. This ooreraiey enesiats in eating a'small quantity of lieflulo dang, a amsll quaseity of the bark of Mellomms, and Wita of Jeaves of the grass Eragrastà sigra along with butformilk. As is purifiention for ibe chlld, it umall quantity of mille in es spoon ia passed round the calf ctiree timer, und then a partion of the milk is spiali na tha head of the osit, seid the remainder is poerod foto the month of the shild, Aftar this ceremony the shild and the mothes may take mill frealy,

Butter is never sold at such. It is mold oaly alime elarilying is tuto ghee. The ghan is the property of the prient. He may nell it at pay time, esseept on sertaie apecilleal dayk,
 is used for clokeing nowl purification. On nurempoisl evensions the dugg is usod in the masedg and is the darlas for the flow, In the dalioe, after anaearing the floge with iloog, they spialies the bath of the tree Muliesms.

The palol, oq the prifet of the $T i$ dalry, ln nomislered to be a very seored permon. He should not appruanh mands, fasanal partios, nail wometh He mast hot roboll say member of the Tode sommunfey. If he touahea an ausidider ar guen to ney otbor Tode minad ar to the bazner be esebes to be a palol. The propirling of
 palol miky go to anather Tt doirg. If be has to obtain anything, he has to gat is throgith his pasiataris. Ite is probibitiod from intarvouran vith women. Diveu if be Io it married man be must lasvi ble wifes and tony not avon aes bed to loge ae ho contlaver to be the pabiat.
 The thoth of a male oulf saketioed nt the euremogy celled "Erknmpthphami " in caten by Toda mon. Tbin if done occasianally. In some mainde tbay hove liegre to eat fowls, mutton, Ary fibb, aud barn.

All the natriotions regeraling the sucteu lisitatons and the milk are very rigidly ohneived by all the Tiblas, sh the obeurymoces arit not diffiente from their poind of view. They bellave that nay breneb of the resirietions misy lond to steknois or desth of the otfundep bimanit or of some other menter olosely related to blam, or of the batraloes belonging to hia mand. All the taboot ou the dairy nad the milk aro meint ooly for the weilibing of the Todue primurily and of the buifntises somodarily, The wellbelag of the baffuloes is gecomery for their owa wellieing. There is wot the alighteat trame amoug thom of the belief that the rentrietious are fu the intareata of the buthloed of for their lemefic. Dr. Rivess is perfootly right in thinking that the restrietioes nim believed by the Todint to be imposed for tbeir benefit only, aod not at all for the benefiv of the atimule. The breaobes of the reatrictiona are wo doubt believeid to caane isjury or avers doath to the buffaloes. Eres thoon tha Todne think that it to manat to injure them. For example, if buffaloea of aoy dairy were to die dail to the breseb of rulas by any pelot, they-think the loas of the winuala in to injura the palol, as he is the offender. They aever think of the buffaloes and their isjury na puraly affecting tham. There is uts the slightest soideace to lufor that smong thase psaple there is a beliof in a nangical sympatby between the cows and their mill.
F. R, ACHARIYAR.

## REVIEWS.

Amerioa: Anthropology,
Amacricail Journal of Physieal Andiropologg. Vol. 1. No. 2. Wistington, 29
pril-Jane, 1918.
Tha necond nainlier of thif josraal bogina with the firnt part of a History of Plysien! Antbrapalogy it Norsh Amerien, by the aditor, Dr. A. Hrollisks, with acoosets of the prinelpal workers anil writarn whe bave pased awsy and aseful bibilographias, erpucially of the Smithsonian Institudne publeations relative to the мщbjeot.

Dr, S, G. Morton (liorn 1799), the chief piobeer, wha $\Delta$ practising physieinan who slas tanght matomy, took ats active laterent in the Acadeny of Natumal Suianees at Philsulelplifs and colleotsil nensly in thouand arnaik for his own atady+ Hts greet work, Cromig Amerioama (1589), 湤 remurkable for the ange and nkill
 botng taken presisely an they arb tonday mudat the ofrocmont of the Congrve of Mosien in 19Cd. His cellectlans are at the Acadeny of Selences.

The foundation ot the Pranbedy Moroum of Amurican Ambasoloyg and
 nii event which land also a arreat futhence os physeal enthropology, Under the Ilrootorate of Prolanar F, W. Putnam (bom 1875 netil his doaih in 1915) the muncui liesama it sumery for students who have since done well in the verioue
 ellangingy at tha groes Chlongo Toxpontion in 1893, sund sanombled importans colleotiose wbieb farmed the nuefeos of the proseut Fiold Masaum uf Natus!

 the Doputaneni of Antheopulogy at the Amerisan Moasumi of Naitasil Rlatory, New York, be buill up great oellestions, indidieg Liose a! Phyaloul Aularopolagy.


Profonar Obir T, Mnsoik, eimator of ethnolagy la the Natlonial Mcuseani if Wahington (1月Ad-1908), was eqpasially hetpfot in enmatology, and suveral of his patilishal papers, तith hif annnal contributions to antliropologinal biblography, Trere of real seryied. When the mupgum was roorgunined lo 1897, the depsetment of
 Abthropology war added, and De, A. Hidlieka vas placed in charge, The divialon now hase 10,000 ruelal ornala nad akeletons, 1,500 humso and saiand lesins, and throssseds of photograpbs, casts, end other objeote, all aocesaible to stadents.

In Cancila, Sir Daniel Wilsor, of Uuiveralty Colleges Toronto, aud Sir Willinen Daweon, President of McGII Dalyesity, Monsteal, ware ploneens. Tha aseond volume of Preisitatin Mar, by the formee, is levoted largely to nutea and ariginal
 Rakimo. Foasil Men and fheir Modren Representativer, by Sir W. Drwson, was also it bonoon whee it, appeared. The promntare doatb of Dr, G. M. Dawson, Bir W. Dawson's gifted sob, whe a heavy lose to acienee. Hia olear beala sed judgment eamhled him, to make obsorrations of the higbest vatoe on the Iodian tribet with wham he onme ta onotsef duriug his explorigg expedtefone ta the angth-west.

Other papara in the jouraal are: Notes on the sephatic fidex of Rysaian Jewe in Boston, by C. E. Gatbo, with diagrama and tables. Comparing Jows born In Rassia with those bora in America of Russian paronte, the author finde a alight lecrease in the popbalio index of the latter, an did Dr. Boan amoug the Jewiah immigraits ill New York. Nelther obsierver has asy aolation to offer, R. G. Hurling
describer a muthod, by the jse of a sold medinm, in the propnation of smatl vertolshion and human skelotone by hacterial digention, which appeare heeful.

Mr. F. T. Willinma, Chief, Yur Kastern Division, Department of Btote [Foroign Aftars]. Waahiogton, hus gathored esirects from many recent and competend suthoritics on the origing of the Cbintae. He inclinas to the bellef that the seemblances botwean the Sumerians sul tha andient Chioces in langtage and seript (ideograms), as wrell na in appearanee, ware due to their having beell tepothen is Oninal Asia before milgrating anst and west, sad quoter trom the Sluan Eai Kigg, 4 Chinase wark of groat astiguity, is support of this viow.

The Natas on Cargant Literntury are en Fimpartant feature in the jaurnal,

 on An article by F. Kisas, Jean, 1917, desligg with body propartions in babnection
 velan of apecial conaditations In the trap: "Premiturely adpanead stateren and * excomive sastures are la generst potbologieal matar theo physindogioal manifosia-

 with Longevity, " by A. G. Bell, mont be in intareating atody. The sutbod took tho
 pernons, of whom the agie at dasth of sbont three thoussud ware lerown?
 were asly tirfs-mine same





 of the sulfar ned blif afqoingee to thit new entorpties.
A. C. IS.

## Afrioa, Zaet: Lingutitios.

This is a concies grampar if the language apoken io the Zurbbed Basin below
 word-forme and copioas examplas, and is dasiguad to be used when reading litarature tith a hative toacher, It lat bu esembue or rambiolaties.

The book will, no douh, be tousel very seofil for menory work nind for teferenak.

## ANTHROPOLOGICAL NOTE.

##  

(Denor indiented in parcithesel,)
Figh Allomia. By M. Edth Darlism. $9 \times 0.349 \mathrm{pp}$. With tluntrations noad May. Rdward Arnold. 1901, 14s, beL, (The Ayshor.)

Frow Darstnison to Koiserizm, By Eoliett Murro, M.A., M.D.f LLL.D, E.R.S.E. F.A.A.Soot, $74 \times 31.175 \mathrm{pp}$. Jwines Muelehose and Sons 42 . (The Authos.)

[^26]




Fic: 2.-904



## ORIGINAL ARTICLES.

## Africa: Ethnography. With Plate D.

The Northern Babunda. By E. Tordury.
The Northers Bubpmin are na nefflisot of the "Kirabodn" of Angolu, 20 with whom L. Magyat lan mequalatail he. Rabunda is the name by which they are known by thoir neifhtours. Sir Herry Jolinaton saye that -bwads in a root aften uspoeiatel with seef rud lielot triluak but this ean searcoly the the eace with the fred and pewarfal people lif quection t it le arore probable that, ne applied to them, the root is derived from the verb hubustda, to join together in partnerabip:
 For we were fald thes the tribo ease from the South, Irom a phee of the Upper Kiwia called Manhlnje, as traders, and, finding the conntry fortile and aparsely popitfued, the firut nomers indacel other tribonnon to follow and to sestle there; there Was no war, bo buaquant, nimply a pesefol penctration whlifh anded with the expalnion or alisorpition of the small aboniginal popolation. The date of thite imini. gration eat le ilsed ae heish enutemporary with die Jagige wore (XVIth Century), fur we kuow that, when the Babanala (frbe had only aoguliod the hakt of entirepophagy from the Jugra) freed tbumantven frow that deuntuation, onribin anctiona of
 obit the lanker of the buhens pold un that thay ased to be cuusibale whes they lived maar the Kwiln river, hat an arriving at thate preent abode thoy loit no many poopie by alinense that the fotlabment forbode tho prictieg.


 Thay sro beste and aever chirk a Hpht, thabgh they prefer to keap the pewe. Thay are very valb; tho ingo mare so thas then wamen, nad their tasie far alarns
 deneribe tha varions way in wilelv they arronge their abundant arop of bekt, for new fathony apposp dsily, yuf there are oestalie "stadard" atyler whinh are
 I to 5 Jochas wids, langing down their baok ; olben arrange if in the whape of a lireman's belmet <na Illasirnted in Magyar), or apain in the limitatiou of a ooek's comb, forined by koiote in is row from the torelied to the nape of the nook, Feachers, eocols, falee or reni antelope horne, bonee (sometimes boman), or straw ornmienta nooplete the coiffore Beardi and mustachíes sre genarally ouly wurn
 platt their lanit in sovarnl losgifudinal ridget mach mare sarehilly in the sust thas it the western snatoo. Boyn froguently went a amall stiek In the tar lobe, but erownotip peopla never; aven the hele soems th alana ap aynie, for we bould find ne traces of is is sofults.

Withithe exeoption of infanas all Balande are dotbed; Menchester goode, thoegh used is bartex, are practically never worn, the cloibitig butag made of three kinde of oloth; all bowe-biade from the fitere of the ruphin palin. These are: Busubm, plain eloth; Lechawa, olotis wish interwaves pattern; and Lotubasa, eloth with ombroidered black, lesongo-khaped pattern. The mantr drass is atasrally, composhd of two pieces of either of the two first-mamed Kinda; a smaller pieoe in front, from bip to hip, nad a larger pieed behind, beld in plaee by heltil made of hide, hatk or
 o(bevs, thag are Wirely nneovered), fhongh nome men wear a sart of tail sbont

[^27]4 inchen wide, made of elath, hanging dowit their buek from the middlas of the bolb The ulath wora by men is frequently ornsinentod with saesela and fringes. Chiefa Wear oba luag pieen of eloth reachiug Howi beyond the kroes, and oover their headr witis sloth.
 strip of Lobybasaz this emporoliteral nurip le woen lehind staight down in tha midalo. + notier embrokleret atip forms the uiper edges. In frunt the two etala meet olbeve than navel (which ninat upt heo abown) and are beld tagedhor by a large iron pin ubout I fool long a the lower abde of the veatare often stand-apari. Urmartied girla wear their buthoela naksl, matrone cover theth A Mombando, to whon a refertuen will bo found of p. D. 5 , Weare very shoth eloils, bet over a frot frond. The garments
 naly do tho thus Weave the eloth, liat tiey abeo enbiolder then Lolathana for their trives; the vary busatiful patteres nis muda troan menory.

 fent and


liova日 by ment. The nave dio nub nour their boitien, lew women If.
 Jong Itonar Hotoldx whinh form lomentar rattams of dise sblownin t they nine have imila. shem livita foctad robinill then waist Red usal miante elay mixed with patm-



The villagee of the Babunde lied viry bountifl ; some of toem (Ilke Slela) are gituated ia grover of patins eblile whers (like Motala) spread ont over an immenes reen, eade hut leing surrousded by the pisatation of the owner; this is the prastion in the majority of essas. The hate ire extremely nest sad piefurange. They are nearly mquses, sond the walls, slout 8 feet high, are made of proses or peolm
 about 9 feat higb, aud the summit. is oftea ornamented with baiketwork. The most characteristle featere is the putnanee, whigh is 8 feet alove tha ground, und is flanked ou the sides by roand wooden oolamas, sbove whilh there in a semisirenlur porsh, formed of the tenterial of wheb the hat is hailt. The daor is cloved from intile with a wath. Its front of the door, it $s$ height of shout 2 to 3 foent, $\left[\begin{array}{ll}50\end{array}\right]$
there in a platiorm made of pula-lost midribe and supported on stout poles. The hansa of thu chief is enclngel with grass walls plerced for a small entrance af a beighe of about 2 ) foat. Apset from these orthodex houses thero nra some othar restangular hats with doors on the ground lavel; thear are not kept so tidily as tie athern, and I suapect that they are the lanitutions of the plaves. Bacholars bsve sach thoir own hotse; of itarringe they bave is baild a naw one in the village to which the wife belongn: a pelygamist will this lave neverul boasoe sitmated in varlons villagos, if enels of whiejr one of his wives tives with har children. Gramarles ara found in great bumbers; they aro cylindtrical, mbeh smulter than the Awoilling-lionèes, ind slightly mised on piles.

The prinejpal cepespation of the tron is trade 5 all naproes aro kpoe truders, hat, with the exeeplinn of the Badjoke noee give morn of their time up to vommeven than the Buhanda. Gireab markets aro held every elerenth day of somen nget on the plains mpoi-dintunt from a numbar of vilioges, and both sexas mustor to lhem io fell foren Strangern, aspectally Earopanies, are very onwelenme, as we expetienool whon we
 cornlige them was refosed to ns , lias we were foht that aredt whan nover given.
 principal artiolen of expori are a agrieal (and produan (in very nomaidemble gianalites),
 amall markelt are beld to the villuges every foar days tor the burtaring of all soris of eumunoities.

Heniles atieading bn bustinas, the men wenves netorolder, boild the houses, ohbaiu palm whed froin the alaie (Mrane) anil the raphla vinifera (Kwach), bunh, make
 (iremfill and the Conjog p. 801), carve bupe, and fight the betwes al the village of the trithe.

The wones louk after the olitidreth, book, setuod he then fieldt, make baskete
 men shoof fiah wilts bown and arrown at inghes, nttruatiog them by the liare of torchos, The mbils, who opaupion a blgh soolal pnaitue produons fron from the oro and

 PI. XVIL.) They bay that they have latrued meisilargy fom the Awan, in tellew ofi she loft banik of tha Kwiltt.

Hunting is mether nat insignitheast affint, an the bitorer kiads of game are absant in tha noethert pert of thi eoantry, and the sporemant lave to bei satiofied with such amull fry as binfs, rots, etat, whials they shoot, in a utoopiot posicion, with haw sad arrow : Parther south, the whole rillage untuen for an expelftion and the ghae is bolted by firlig the grses, The first man io bit the quasty is the owner, but the ahidef io sontitied to one litad log.

Fliutiock gans are beglanlog to be fatrodaced. The ant of navigation is to ite isfuncy, as the grater part of che country to devosil of rivers of any ieportanen 7 so the bauka of the Kwila mess primitive raita of three or four loga tied togethar aro propelied by peddles made of a atiok-je the extromity of which a few shartar sticke are tied eroasways Thare is alwaye some war goligg oit t it may be with a ueighbouring tribe, between twa villagea, or even between two seotions of the sume villags.

Thers is soareely ever a great mastkat held which does not end in as flght between two hostald factlons. The bew and sirrow are the weapona masatlf relied upon (the same as used for buntiog', bet whon the anemins eome to elose quarters the awords oome ieto play, and thay are torrible waspona too. When two villages
have a difference, the signaling dram stimmons all males, ibelading boys from the age of twelve or sa; the chief takes conmand, and is advised by the old mes. The two armies meed in the plaies and, when they oro within balling diatabes, Insali cach other with the vilest invectives The wer may drag on for some lengith of thmo. unsit the agyrieved village fipds that the number of enomias slafo is sufflelect to compensate it for the injury or affrent wainh was the enase of the hostlities. On the whole the pasiatiles are small.

As the erope of the fleld belong to the womas wha tillel if; it is lier duty is food her humband ased ber childsw.. The staple food of she Balmula is nillet (Masaiga) , cusiavi (Belobef) asi mize are noly planted it smaller grantities. Bread ie mede by stirring the flact into boillag water till it lorms a silif pudding. Tor trybug pala oil it used. Tha Bubuuda do wat llke to kill Cheir fowls, so shry aro goourally usly mwe wben thay bave thed a natural donth, wheni heth nexes partake of thom; ocenabloually, howover, a wiug is ent off a live animat so as to provile a lerive eneal: the phickena ms anpulatod gaberally renover. Gonts aro killes on market dayn und told is mall picees; those are provarved tiat thoy are
 10 woune. The poobling is done loy womed, who prantionlly never daun the vesaels, The eook thkea fles what whe wanta nad the roat is for lier lord and master; io ases of a conjegal differnioe he is panlatied thraugb pee stomsels. The hose alyayn


 Tha Tailias hamp piant is fond in gunatitien in the flluges s tolscoso, too, is grown



The following domestle sabsale are hapt ! gbiokens, gonk, hlack pigs, dogn, and anda. Powle sre proviltol with tiog house and pley widh inclosares, lato which they ure driven ouglaty $;$ ubse and dogis shane thele menter'y bouse, whlle the grosta have to abifi for thumantrac The labler are killed by i blow from the loug woolen sword
 eo rbiokents, gonts, pleg, and toge.

Domantio asimale ore ued as curreacy! laking us the unic the hag of native skit, thay represont 2 goest, $20-60+\mathrm{pig}, ~ 50-70$; fowl, 1. Ose salt is the same value as a pall of natlve oloth (Mabufa) The value of ontaln comparen favorimbly with that of a vilo ( 30 salia), a mile (170) or female (200) sloves,

Slave amo only poseasend by tsen, who can setl then whenaver thay ithe, bak they cannot put theos to death; their number is grasi and mosi of them seem we be Balueda. Tbey may be so fruta birlih, in ahlld following itn mother's siatus whatever the father may bb, or they may hava become no as o p punidheent for thats or rape or as 3 componsaton for sin anpaid debl. But we were assared lhat is wha nas the offender bimeelf who was auld tuto slavary but bie brother. The slaven are well treatod and providoil with wived hy their owner, who oflen marties them futo hais own fanvily; though is theory their earpings polong to their toabter, in practicebey gecerally recelro a eonsiderable part; this they can nas to redoum themsolves. A man la always reepoasitle for noy posible debts of his slare. Slaves are inherited like obber properif, a man's heir being his eldost living bwother, falling Shm, his aldeat living sister, failing ber, the eldest sleter'e oldast $\mathrm{BOn}_{4}$ sad Bo on. Widows are lalierited wili other jroperty, and so is the chieftnimehip, except that u female vaimot sastine that runk.

[^28]$\left[\begin{array}{lll}52 & ]\end{array}\right.$

Few chiefs have any grest authority, thongh the administration of jostice lies in thelr hand, Thicy receive so pay from the contending parties, hat are genernlly diapoeed to tilt the halanee of juation for a consideration. Blood roveuge is recognited. The usual punishment eonsixts of finew, of leing sold inta silavery; capital pavishment is not inflieted openly, bat a nhied may klll an ineorrigikle rague by witcheraft. Druikenness ia not memitted na an excuse, and is not approved of ; the bonther of a drankasd will forhid the palm wies sellere to nupply bim, and if they deregard his warning he will emahh all their ealabashes. In ease of murder by as Tahablanat of anather village fle eosmanity will ulsim to tademilty of ten slaves for the besefit of the rietter'y helr, sed io ense of non-payment, asforce it hy war, A village will thus protect its membert, tha nambarsbip heing nequirod by birbh in the villogo, or by marriaga with obe of the giver beloughg to it

To be a member of the tribe ope loas to be the ohild of a Momlanda wounh, for a persou cosblifers bluanif skia to his motber's family, sod not to his futierk Bosidan this kinehip thare is an age-kinskip rocoguised lretwans pouple born withlu the suine period, the lgogit of which wa could not entabliah; this is an aliencule to matriag.

No pervons who chn trace a comman unesatry aie allowod to marry, If s youlh dutires to marry a givt, he Fill oull ou her parsote sedl prount them with num palan wine; he will pay severat visits like this withoas over mobtioning the real objees of his astidnity. If lus oouriship is viawed fayoarably ly the parenta Lhay will mak him to eat with Lhemi hile gratioplly maans conneot, though the bride lian the leat word to the matien. Sinvita sher refone, sho dizappolnted lover
 will proeesd at onee to bulld a houen tia the girt's village, and, the bride prime (;00 suite) haviog boeo daly pald, the mather haude the bride over withont any further nerenoasy. Some Baboude many out of thetr Gilat liat oyen than the rwle in obaecred that the butbasd bat to tuke bie abode fo the village of hin elect.
 A cann oannot merry hir own slave. Both partiot ban divosee st will it the
 remearrien, when he han a daim on fles soonal harband; if if it the wife whe
 diverue, the frat child giee witb the father, the sevond with the mother, be muxt with the father, ate. If the wife dion before of dhld has bows bors, her pareain refuod the bride-pried, or provido anotber wife grotis it is thin hagbind whe decides if le wants tha mobey or a brides if, howover, the decebsed whe toaves a child, than husband ensnot elnoose, but bah to take another wifa.

Virginity eames be expected it the brile an gith nite allowed to iodulgo froely up to the ago of poberty. It is the custors of the country fant about the perioci when tie millat ripene (May) the youag men of ench village should club togetber to olitain a Mombandas. Thee Mombanda has po be a girl under the age of paberty, as stringer to the village, and she lian to protitute lamelf with all the young tien in tatne, but thate are days whes orgies take plown and all the tmen have latern sourse with her. Ont these specia! days the Monibanda's mothor proxides foad and patio wine for the young men ; it in she who recalvea the payosont, which ennsiuts, for the taran of its duration (two lusar montha), of fifty to sixty "salts" per mins, Not all young men contribate, as there are some who eannot afford is: only contribatore onjoy the privileges, snd is is "good form" to beloug to this set. Nivt ouly does the Fact that a $\mathrm{g}(\mathrm{t})$ has beeu a Mambanda not prejodise her chances of marriage, bat it is considered a distiaetion; no girl can be a Moabanda wora than once, Sbould she die while she is in this position, her viltage is entitlod to heavy
damages. The girl, af montiousd before, wours a vary ubort skirh, wad heer hat is diathaguibbed from all othen by being palnted reil and white in triangular fatteros.

On the whele the monal cods uf the Bahaula sarreqponis to that of pivilinod commuisies, though a diatinet differenea is made hutweos a tribesman und a stranget : the lotter is a logltinatio ubject of axpleltation and extortion, Yes bospitality is dese to him, and it village which were nint to offer it would sequina an nudeairahlutuputatian,

Adntery is conshderoif a permoul offanev. The grilh of an offender is frequenty matallisheil ly oriest; thin may be done the the ofl Bonila why, hag givieg a sanall quanity of gyuwh (a decoction of the bark of Erydhrophtanu Guialowes) whieh, if it aets as a vomitive, proven joneeenee, while if it proderes diacrion sonfirma thu whage. Nowidays, liowever, another toss, learapel from the Bapinjl, is ubed the suspeoted person has to fith a pobate sat of a poi of hoiling nili ; darangol akin prove guilt.

In ease of withburnf, tho manned lins always in indergo the test by opumi, which is then glven in a doadly doser It to to witolorafs (Molocki) slat deadis withonic appareat reseses ary aterbntel, that is to may, when they oees whineat ulolenen of palpable dianke.



 of the dead is cbertalieh, aed the trat frolt in macificed on Hiole praves, ant no
 tha deai. The whole rillapo Insunte the detanes of se (shablean for noveral wreko.


 Bometimes is boppone that the woul door not fle whith tha bidy t then if burns into


 acguired the mere elementary piot of lifk aft, lan lias ta pay a gont (tho Ilvar of

 the magical olay which, if ampared oif the woodon haugan, will protect the awner uf sheins aud be ban kill it mah, soil bo afien asked to do bo to sabisfy guane vengesnog. He practiens medieise, ayd is an adept at hleeding.

The Babunds are fond of mialia, send sing expectiogly well r as in matter of fans, better thas any othor tribe in tha Conge. Thiey nover shout sual seroan io uggro faehlois, but ano their velvaty veians with moderatlou, atid ato apable of singing in perfeet furmocy \& whills thay arn datige ao theie beilies parform a elrealar sootloul corresponding to the than of the tane. We bever heard the women eing. Their instruments ara! the woodeu mhintle (a kiul of traden horn eopatitiag of a nimple hollow eylinilar), ocarinas, the sonsa, the musiod bow with calahash rasusutor, drums, the frietion dram, nod the woolen goug. 'Specinene of all these haribese collested for the Brilishls Musenm. There is as speciaily interestigg ratile, which I proposa to call the switobsiaitie, whieh oungisis of the midcib of a. patm tenf, halr hallowed, and with teeth like a saw ont into the two olges; over these edges it lundla of awitches if Cruwn \#ith a rapid motion, and the sound shas produced. Thia instrument is bily phayed as funernls io front of the deobased's honse.

Mutilations : Ciremansiston is general, and performed by ohl men on infuntr, All imelsor , feoth are filod.

Five if now gamarally proinaed by list anil inon, a methoil lagrned from then Bumbala.

The Babuads greob naelt othee by oua persou bsying, fur (pence), und reasiviup Lhe answor, $J N$, Houn the first aiks, Kaleterls Wle? (No war R), and the aliswor to dhe name.

The year is ilivided Jato the ming and dry measona (Vola ami Kishn), uml the monthe sere ealloil first of Fulin, ute. Tlie Fast is ealled suitrise, and the Weat
 lhe sley dioring the iliflis

 do bet life to netl any to firnugers.

 He Badingu, tise Cant with than Bngoade, the Smoth with the Bapiafi, anal He West with the Babwede and fouthem Bambelne

1. TORDAY,

## Europe: Witohorath.

Murray.
Witohes' Fertility bites. My M. A. Morras.


 preen of the religious osernipsian Slnee then days of Megiande Sesus it has boen the


 the recorlers, whe beard the evidonce it the trialas "Leer eonfakiona des Bereleks.





 " that the Dosil reew reth shom, nud withat vomplalaing of the tediom and offoneve
 " it is not a mber Dram. " 4
 mither to prove their contenton that the witelies sathred frour buthaination. Yem In irial after trial, lim places fer newaved from one another, ant at periode moro than a semury apart, tha faol is vonabui lot with jost the suall varlation of detail mhinh
 iatarcourse with the Davil, fir a large proportion of osses hbo aldod, "The Devil " wat cotd and lifa sovd likewisa," These were women of every slass and every sgot from young gerle to old womea, nomurted, married, anid widowe Suoll it mash of evilenco eninuot he igroseil, and the any athor sulijent would ohtaist eredesse at tunce; bot the hallnemation abeory, beling tite ensiest, appers to liave ohsessed the

[^29]miends of modern writers to the exolusion of uny attempt at explanation from an innbiassed point of view.
"Saered marriages" are explained ss an atiompt to infloonee the course sif Naturn by aympathatic magic, fertility beling lecreased and barremiesi averted thereby, This explanntion aceonnta very well for the cocurrende of "alsesuo" riter among (he witahes, hak frila when it tosebiek the question of the Devil's coldnesk, I offer hare an explanstios, whinh I believe to lie thin trae one, ne It secounts foe the frots: thoae fants, which the wormes curfenses volantarily and whout tornee or fear of punishment, like lsobel Gowdle, or alliered to as the trath even sh the mabr mabl the flataes, itke Jant Boedean.

Io auclent times the Bacred Marriago took pham namilly onee a year, lat therr
 heling tha pritate or tompla ofllolala. Suob rites wem for the Incerase of fertility and, at there is overwheleibg epldence that the mat whe wisi browt an the "Devil" Thas ragnided by bis worshippere se the inaaramie deity and giver of fortility, is is elear that the nerenemies of the witeliad Sablaths ware the esontinuation at a very ancient rithal. Bullevlog as they did that much laterobunie would faerenser the fartility of tbelt sropa med hesid, the woinin wond lasisi apau it as their pigbt
 the sowing or harrostiog periols of the sroge. Aar the popalation, and tharefore the sumbar af warshippers lo ssdb "eoagरognton," ferreased, it woild booome Inneans-
 of to masy wombin" The problem, Elest, Wan that of the oise hand there worg a number of women demanaing \#hat whi is their ngor ac ditug emantial for themnalves and thair Lanilias, and os the othor hand a man phyiloally saible to nomply with all the caild upos hlai. The obvisus selution of the problem in shat the
 evideneer at the trials polnts, deberly to thil salptias.

The neoanional Ameriptloos of the Devil's phatlan shave mithout gaestiou ite


 ${ }^{4}$ was, nagte anoh wie sic kela Golouth Fedor Hoden ubeh Beutal daron gemerakt " bat." ${ }^{1}$ A Amag the witchee of she Lyave disulet in 1598 ; "taquama Paget

 " dalgi, et mbindro on grobsour que selny d'vo hasuma. Thiemanes Puges of Antoine
"'Tornier adiouatoit uanif, yue lo mismlise de Jears Demons satois long et grus, ${ }^{4}$ comme l'vn de leur dolge," $\%$ Avouving to the witehes of the Paye de Labound

 - aulne, main il ie thont sutortille at sisuagx on forme de serpeat--Le aumbre dy

- Diable est long ebuivos la motuí d'rnes anine, de medibere groobear, rouge, ohbesir,
${ }^{*}$ et torilit fort rude at comme piquat, Ce manatit Demos ait soit thembre myparty.
" moilía de fer moitić de chait de tous nou loog, et de mestmo lea geattoires. Il tient
"togsioars son membre dohore. Lin Diable a le member faiot de corno, on pour to

[^30]${ }^{4}$ moina if cn a l'spprareace; e'est pourquog il faich tant crier lea fommes, ${ }^{n *}$ At Auldearne, "his mamberis ar axcoiding great and long; no man's memberis ar au


The whificial phallas will aceomit at nothlus olae can for the pain saffered ly tminy of the women; sud that they suffered polantarily, and ovan gladly, enn ouly be understood by realising that they endared is for mot|ves other than phynicul
 -a appeared as grear Blach Goas with in Candle betwoen hia Homs, He haid uaral ". knuwledge of Lee whieh woe will great pain"t Abooeding to Baguet, "Probque * Watea lea sioroleren rapportent quee eet rosonplement, lear est lo plas swasent des"Ayreabla, lant pour la laidear of deformité de Satar, quer poar ee ga'ollen y oat * vie extreme doulemr." Jemanetie d'Abadie, io the Pays de Labourid, "fugoit * I'aocouplement din Diabic, ì atase qqu'syans san mambre folot na aecaillen il fait * souffrit me extsema daateur." In the same datriet of the Babbathe the Devil
 ${ }^{4}$ enming permonass quif soulfient vas grande deadear, at its loe voyeus uass wost " reaenir aal Sabbat tocten sanglantas." When the Dovll exereleed the right of the
 "Lear fuict sonifir mille donleure"| Whaw Bush, of Bertoin, sail that the Devil, what same ta har as ayoung hack man, "wat eatler than man, sad beavior, and ${ }^{4}$ coinld not porfoimi huture as misch"

Tha phywinal raliasan of the Devil in vusuhed tor io all parts of Western Earopa, and le nemitotad io nbput 76 jer onac. of the trials. 1 pive only two
 " iemence, an'ellat regoldant du Dlablo, ont froide comina ghee, Sprangar, ot ler





${ }^{-1}$ ation. ${ }^{n * *}$ Insubel Gowile unit Janet Bruadheid salil that the Devil at Aoldearm
 4 within ma abs whil se spriog-wellowator. He fa abler for wa lhat way than any
" manin ean ta, only be vee lroavie lyle is maltunak; is buig natare, Feria nold, as " your" 11

Asother point which roen to prove that the latercourse was ly artifietal mouns whin that progsuncy did not follow, exenpi by special ofunent of the womas, Jnsenestet d'Absolie, whine evidence hat been quated aboves said: "Elle foyoit

 " bies qu'elle n'engrosse iamaia, ni celle des sutres honamed an nebbal, bleo qu'dle "soit puthrelle,"t: Boguet prye that Antoinette Toraier and Astoinaite Gandillont
 * Diable t l'vio reapondit gn'ello gatoit taop vielle : J'satre qua Dien ne le vaulut

[^31]"pas permettre," Aseanding to ateanise Herrilier, tho Davil "couctar athan alle " charrallempont, on la mesmas sartio et maviare que thet lise hrmans sumer lea femernes, " beramis que le samaned obtoit fovides Cole dit eilo rentioua trua leas haies ciir

" luy, of quelita sue voulut puar," Bet whan the witeli wua willing to have a chinh. lhere is un enerplaint of the Devil'f buldnees. At Mciblatore, in 1652, "Aume ${ }^{4}$ Ashly, Anni Marlyt, and one abler of their Ausariates plowidel that thay wem " with shild pregrant, hat confisased it "was loet by moy ment, bint by tho

* Divall Aume Ahliby ausi Anan
"Martyu soiffradel that the Divell
" lised lawow thes anyonlly, and that
" chay hait man hant hy it.'"


## M. A. MURRAY.

Alasica. Gordon. A Head Ornament of 28
Braided Hair from Alaska. 28 By DF, G. B. Gordoa,

Theif is a very remarkahle piese of work, and nanst bave requiron foffite thes patienes, and Indontry. Only one liaft of sla armemam in shown la than photogniph. It is made oy of thes limide, 20 bagheen ior longhti, verry dark lirown, nald a very fine foxtares, Exolt linalt to ramipined of fram iwanty of Irmity-Evi holus and pach bind entern slagky inter she limaid. Is was on bebrJouen in the Somily of Lhe Chiof of the Woif Banee at Sticks. Tradition saya Ilent the normment wae made from tho beir of a deserbete of this hones who whe latasae for lior lonemity, she marrind Tasca, a I'rinee pepular is the theshians. of stikn who in the youth. incune ninging difuetise at a greas gutboring labld fir the lady's home townTo shoer her atfeasion for she Prines abe lind bor lonit eat off at the waist lien, had the enils thus removod wore braisded tote thio omamubi. This is now in the celloctions in the UThiversily Mrumam, Philndolphit, lisvinge boun seat remently by Mer Loule Shotridge, the bighliy inselligont Jodian Chiof wha thas been colductiog un expolition in Alanion, for the maseam. G. B. GORDON

[^32]Central America: Chronology.

In tha Nisuteenth Atragal Repore of the Burenit of Ameriean Ethnology (Smithsoniun fortiutina) is an ateomet by De. T. Gann of his exenvation of the ehover puinn, with sbroe plates of the walt pelatingi, These paintiege seem to show eonsidemble Nalinatl Influence, byt eontatis mane Mayn glyplis, The day nigo Ahan
 Hiat some of the otlier day signe are depinterl, tat this is not so conain as ia the onse of Aham, becanne thet signo be inken to be Manilk vary considerably from thm
 senaby vary daubifal it they are bore naed as day nigne. Plate XXIX of hie papor shows tean human figures, numbered ly him from foft to vight. This numeration will be followsed is the present papor, and the varionif bumanif fgures if the Phote will ba reforred to by hin numhers as No. I, bee. The day alge Alhan, with ite Mayn mamorale, occurn an follawn:-

Nis. 1,-Na Ahna eigst
An, 3, -1 Alasu above the ligore.
Ni. 3. -Na Alasa 8lgo.
Nor, d. -9 Alan above the figune.
Na. 5.-) A Ahau at tbu back of the Iggre's liest.

No. 7. -4 Aben aver the hound buat of the ngure between it abd No. 6.
No. 8,-12 Ahen oyer she arat of the afgors.
Thert are ba Absu signe with then momaining figaveh,
The firet thigg to le notired in that froen No. 4 vo No. 8 tho slay matber of Alinn regalarly jumesues by th Of courn 4 Alan B4 Na, 0 bs $(13+5)-13=4$, bennen tho day nowinbor dannot riee shave 13. If thero find been a 6 Aliati with No, 3 ilan sequesaf woold be oomplaths giving af feanate of if fu the day mesber througbous,
 giving the sequesies $18,-9,6,1,10,6,2,11,7,3,12,8,4$, mad then 13 again, Them

 hustead of doereasiog. An thes fuas ind ak the slay Alew it is a reasonable miopportition that they arg fuins of the Loog Count, hat as oxah day nainber rotarne at the end of avery 13th tain, reghly ayery 13ih juar, this lo lifelf doer not fis the inter of the inceription. Now no mauth appaer wilh thin neriat of duye Alisu exoept with 8 Ahat at No. 7. Sare fleve is a glyple which appopen to be the
 bar. The glypla lins the gand nopueffix found only with Yashis med Yax, whila the ronidnigg part of the glyph is certainly not liat of Yaskits, and is life the Came slgri Whith maked iap tha lower pars of Yes, Thare Is no otber dny klem whilele
 that the monch gigpt is over the ilay getyph lettead of the ursul porition at the right or benenth, On he whole, howaver, is thia is not a equtinuous text, bot rather a grosy of signs seaticrod throagh the pleturen as is some ports of the Codex Tro-Conteriaitia, it soeman corroes to take the month na belonging to the 8 Aban. The sacond diffenity is that the moath day in 5 , while Ahsin ean nuly fall oft the monlh daya 3, 8, 13, or 16 . In, bowever, we nssame thes the theed deta Whioh thould ralae the ralue of the zinmeral to 8 ware nither omitied by error br had become oblitented, ve woulif have a date 8 Ahan 8 Yax. Now, though in in

[3 tunf, tbere will only be a sun ending agua un the satae day of the same moush avery 73 tans, and there will only be one ending egain on the sume day of the same month and with the same day nember after the expiration of 949 twns, or 936 yearn of 365 dayg. Hecoe, only afyer the axpiration of this long period will a frue eniting को 8 Albes if Yax agnin ocerr.

The earlieet "historical" Maya date inscribed on a munument, that on Stela a at 'Tikn, is (ssing anme mathois as in my former papart, Mask, 1918, 70 and 74) (9-2-12-0-0, 4 Abna 18 Kaysb ( 12 July 12 m .0 ), The Mays eulture eloned with the fatun 11 Alinu, that is $13-3-0-0-0,11$ Ahes 8 Kingot ( 6 June 1543), If is sertaid that tha Sasta Rile polipe miast be dated somewhare betwena theas very wide
 the Loog Counc ilurigg the whols of thes pariod, wamely, on $10-3-0-10-0$, 交 Ahau

 Gondmaty talilat.

If. is rature teapting at first to nsaign the sartior date to the mion, leonune the Buolar of Chilum Balam ajeak of the diecovory of Bakhalal or Bhemlar is Katue

 Was elabilabed loerg anly tweily years before. On the whole, however, the miofkei
 12-18-0-0-0, 8 Ahan \& Yas (5 Margh 1805) wonid fall well whinfo the perial whan Nahuat Influence is known from the bioloc of Cblan Boluw to buve existed,

 18-18-0-0-0, 8 Alan is Taee ( 12 Nev, 1444). If is alog very elone to the dithe whioh Dr . Gane on ither erounds conilleced probuble lor the orentlon of the

 takefi in the the tran one.

It is Worthy of note than it le ouly by uing Mf. Dowditubly torvoletion of
 grounds, san be reachod fof Enints Blu. Whataver oorrelation with duten itic dief Chrietian arn it osod, the two poetible dnese of this insentiption in tan Lang Casui will, of conrse, be the sama. If Mr. Marleg'e corvolation in tusai, whinh puts the
 than Mr, Bowditelit, the romite will he thut 10-6=0-0-0, \& Ahru is Yax, will hall
 aonoriting to the lookn of Chilan Balain. This in loag before thme was hay Naluas! buflunnod out the 'Xayas so far as in knownt and it is lang aftor the dise savery of Bocalas, 30 there is mo probability of nny leind that is wat the datn of Santa Rita. The other altrernative date, 12-15-9-0-0 0 , Ahan 8 Xux, will fall in 1611, Jong after the 8 panish Conquost if may of the corrchatinat siggantol lyy ather atadate le uad, the resule for Sante Rita will be utill wider of the marka

The following table gives the dator ntinehed to thes reveral figares in tho Sante Riun wall paisting necordligg to above taterpistation :-

These dates wre in Hie Julian calondar, the errer of which in 1351 was dan dayg so that 10 March is equivilent to 20 Maroh Gregorisu, that is wilutu a day of the vernal equinot. This rfforin an allitiosen proaf of the abereemass of the interpretation, becanse tho majority of "hinteefoalt Mayn insoriptions aeem ta have rather commemorated later whieh were impartans antruagsically we estendrially than dated of hiatorical eyevota ta the ordiamy sense. Sop doulhi, however, the slates of fimportant eventa were noted as well.

A word in sunclaaion on period-eadiag faies in ganeral, as to which I venturt to chifer from to eminent in anthority na Mr, Bowditeh, It has boos shown above that buoh a ilato as 8 Aban $R$ Yux, if it in fnown to be the sading day of uny
 of 936 yoare. Tbig in a different ense from the usanl periol-anding dates, which siate, e.g.e that 8 Aban \& Yax evided 9 fiwns. In theso latter, necending to Mr, Howdich (The Nwweratian Chlewtar Byzieurs and Astronanieal Knoeledgr of the Mayas, p. 177), the date cannot oceer nguis for 049 bens, Bat newely wheir
 previons totwen, und onnempently shat katen emiling ean lee foimis, so that she date pannot oneir agoin for 949 datsols ( 18,720 ynars) lustead of 540 rums. In lseh, is can lie shown by Gastman'k tables that ud ton 9 oll any hatwe will bud ogsin of目 Ahan e Yox for 949 hutwer. A ximilar remurk applies to sogh period-ebiling


 date unams penar agaios, andigg a katem of of nay gyole for 989 eyoles ( 574,400 yeari) Instond of 049 Aatumh And-similarly whan a dute in antud to nad a girev
 the oyele number 2 gifirn the dialance fram than end of the provigus gresh agote, an that the dute of the greas eycle endiog lay osn hee formed and the dote sannot sgrine aueur madiog oycle 2 of any grat oyole for 340 gress byelee of 30 cyoles enabs, is nariod equal to $7,488,000$ yeuss,

RIOHARD C. E. LONG.

## REVIEWS.

## Asia Minor: Ethnology.

 (Provedings of the British Acadrmy, Vol, VIL)

As the pronest time, when the frrenses of Anis Minoc, he wetl as those of the remaioder of the Turkish Eropire are to be deoblod, the papar read two yeare sifo before the Britief Acsdimy on she Admixture of Rasas in that smuntry is of great istereas, and deservee rarefol stodiy hy the statesmen who hold great batues in their tands, and by all whon desive to obtaits aome inaigbt inte the invelved mase preseated by tbe ethnalogical probloms of flint wach-joveded region.

Aala Minor, as Sir W. Ramsay has rembided us in w reoust paper read before the Central Asias Bociety, has boen from dbe earliest dayn of biatory the bridgey in practier almosi the otuly bridge, botweet Earope sod Asia, and, to facs, If we fxcept the muvement of the roat Hannish bordee, it has vetained that charncter antil very roceni times. Henae the invasions of powerful ampires and of migratory tribes pressing from cast to went and ocensiasally from west to esah. Moat ne these have laft bome truce on the population. One of the miost marked festarse of this population to the extruordionry namber of communities of obviously distinet origin Hring in sunsll bodien twolatod from thelr race-fellows, yet remaining distinst and septrate and not intermarrying with their aelghbours. Some are relves of conquared
 foem hodies capmile of political jedopadenee, and for the grant majority the obly hopa is a stragg central govecument eapablo of ruillag by eipilized mathods, atad this priviloge they have been denjed over ainee the fall of the Byzantine Empire, with the dianbiful exeeption of 10 thort poriod muder the Soljule Terke. Ualer the Ustaman Turks their farb has porhale beon worec thail andar' naty other' fylo, and it is pernaisibler to bope that tha Peace Conterenee, followed by tho League of Nationt, may be able to deviec tome bohemo whioh moy reatore prosperity to thair
 promised antonomy under powerfal proteotion, bus what in to happen to the rueus if Asin Miner, and to the the Topko themealves, whe have sufferel ahisom as
 Mlour. Tha Gronk alone-at any rate, thuae of them who fulablis the frovinen
 but, as statel ahore, uo othar rece if Ants Minof, expept the Turkn themsolvon, nousta politically, This is sip W, A. Ramay's opiaion, formal nftur a very loug porainal atuly of the quastion. And a very Large namier of persons who go by the nams of Tarke or Omenoll ese not mally Turks by Wioph, bisk buhag to wee or ocher of the numprons septiond mone of Anatolla, The proobes of posvordige them lato Omanlla has boen goling of vigoronaly, na Sir W, Ramsay stowes, both under Abdat-Fanill and aniler Life meonsung, the ao-allod Xoung Torke.

Othes raos mane neerly akis to the Turker got dlatiged from thom, uneh ae the
 slaring a commoir laugongo are masis suaily apoimilpued, and Sir W, Ramay oon-

 liokdr to bo a miael raie desconded from the Invaling Turlas and the Anstollan Olaristiang whom they ennigunred. Ananig theae was a large nrimbor of neeta raganded an herationl, than Were very hasahily thateal by tho ortintox, and 8Lr W,



Attentliun may alsa be draws to the vary uneful nesount of the Alsws is Aain Miaer, and the eoquiry as to hors for the aseinat settlersote of Jaws nindor the Selounidm and Rumann are to be ropopulebl in the modern Jewish population, which is gesernily beld to be mainly derived frome Westers Europe, espelally Bpain. It Is impesalble to do wore lisn bint if the masy questions nieed in this very useful nad tmpuriant paper, which is, ar mithted nhova, of especial value ot the proment tiane, when poesibititles whith may not rever for ming gonerstionie esem open for tbe inderfuresice of olvilized Eurepe on hold and gavenasy figes.
M. LONGWOKTH DAMES,

## University of Pennsylvania.

The Musesm Journal. Vol. IX, Nok 3 and L. September-Docember, $\mathbf{3} \mathbf{1}$ 1018.

Thin is a fine double sumber, foll of axcellant inantresions. Theodore de Booy desuribed lis ulx weeka' riait to the Maena, of the unaxplored Sierra de Perija, in Western Venezuela, nuar the frontler of Colomatis. His plantagraphn of thest poople are ramakably good, showing thoir varions oce日pations. The pactiliar fuce deeoraton maket quite a diiguike, Whbout this, the gearal sppearsuos of the men kuggesth an Afriean type gratted on the American. Fortunstely, they liked being photugraphel. They are "quile anlike the majority of other Sonth Amerisan ahorigines," The arerage belght of the men is 5 ft 1 in-, and of the women

4 f. 8 in. 'They wear full rolsas of homespan entton, frown an the mountsia slopes, and woven on a primitive, lanm. They do not nase bammocks, bit sleep on plaited strave mats laid on the ground. For weapons thay have only hawn, with several varieliea of arrows, the pointe made from hoop iron. This they nutain through she Edencus, who communieaie wift ilse Spanish Venezuelunk, Making ztring figures in
 und alnssified.

Of masiend lestruments, thoy bave fatos of soveral kinds, nad mapuh allellf,
 are played avor and over again. Mf. de Booy lateoducud jowe' barps, na which they
 Manoa. An drawali sribe id sald to have provionuly juhabited this ragion and wo have left many remaise, haslading os barial enve in a ramote mountalo, Besida briuging away a grous ethaplopient nolieqtiou, Mr, da Booy secursd a quselity of
 4. 4 ye' rida fromi Marsenilo.
 fiass furthoe entichat by the late Mr. H. J. Jeweh'h solloction. Suvarsl colourad
 nurfaum have stinoat the nemoethans of slem breat of the lifd lanif. The baskets
 was to suels n baskark thas the sun wha stalae frase the other world und trought to this. Huskeus decorated wihh yallow Jeatbris are oifled mogn buskets. There are
 Aliasastor. Ten very fine stitchos liow the appermaet oofla

Two stope rolinfs (anquipod by the tanenes) of the homan of T'seg Thal-Trang.
 intereateg nccouni of ourly Cbiunes bibtery and harser, lig C. W. Biebinpo The
 the itinatoncone is the haveom tab of the Ban ilyannly (thitd nantury A.b.).

A Kokeplii logend (Goatenala), trauilated lig Re Burkiu into a traveaty of the Eagliala langaggo, wonld bave beon mere valauble fo she arigiaal A. E. A.

## ANTHROPOLOOICAL NOTE

## The Mackio Ethnologioal Expedition to Oentral Africa.

For sume youra past it lias bees is oontomplatias to listitute reseserehes Toto the lawa, esstoms, and boliels of the native trilien uuder Britab rule lo Centesal Atrics, partiestarly in the Upunda Protentornto. All these trilbet ara in a oomparatlyoly primitive stata, and sume of slam have been na yat but lita modiftod by tontaut with Eqropeas elvilistion. It is bellevod that a thoruagh inveatigation of thees intereatlog peoplea will not naly mako a valuable contribution to the seience of man by throwiag light on same oarly plases of tha lidatory of anginty and religion and law, but that it will eminontly condace both to the good government thad to thin peonomia development of these reat and fertle rogions pith their teeming popenstion, for without an acourate knowlodge of the habtta and idesa of
 loyal ; and withoat their wilting aded ettye eoo-operation the material anil jodustrial proapertity of the eominary cannot be Boasued.

As many are alrosdy aware, a potecme for the sefentifie investigation on a large seale of these importatat problems bua boun planned and acdeatly advoested by Sir

James G. Fraser, hut bitherto has been bulked for wail of the mecessary fuodis. This diffioulty has at last been bappily overeome throagh the enlightened liberslity of Mesirs. R. J. Msekle nad Co, Glasgov, who have gracroasly placed at the depposal of the Royal Society in mus of 1,6001 . for the purpose of slespatehing it expedition to Central Alries to institute the necestary enquiries. The expedition will lee oondected by the Rex, John Raseot, M.A4, Rector of Ovington, Norfolk, who, disting on residates of twanty-live years in Cestas Alrien, itr the serviee of thiClourch Miantoasary Soriety, has sequirel ut oprisalial knoplesper of the mative seiles, their lasagages gastons, and idens, nad has probliahed the resalto of his investigations in two books of the highest seientifie value (The Alaganda, Lendon. 1911; The Norflarw Rowin, Cambridge, 1915). Hia rpecia! objeet on the expodition will tee to exauibe she varionn poteral tribos, whigh form a very impariant alemout in the nailve popmation, amilocopy a wile mens from the south wertoris corser of Lake Viecorie Nyansa io the upper maters of the Nile; It in bopud that une roweli of the uxaminasles will be to furnish than Governaunv with xalauble materialn for itn guilsmee in dealing with the triles, so as to promote the impartani indastry of -arclo-lirediof to the lent slvistage.

The espedition will proneed by Monelase shosigh Briteh Eust Afrien to the Mietoria Nyanzs, sad through Dgnasls dews tha Nile in Kharinam, returaigg by Eagypi. It if bupod that in shldition to the pastoral trilies, which will te the
 nurtaln exinai, alan nenong the Gplla, Aleifkya, and the cannibal riben of Moent
 Tbroughons its progras the expedition will tas abiler the gooeral sajierision of the Koyat Soointy, which liav appolnted a Comsieten of Maanguanats

Mr, Waiter Lang, F.B.B.; Fint Lerd of the Admiralig, lins heen invited to heyt no Cheirman of tha Oomsituet, nid Lord Miloer, Socrotary of Stste for the Colonios, has boon asked to join it. The Coaimitiee Initmier rapresentative of the Universitiot of Oxfard and Cumbriders. All friende of telenion will sistiolpate of large and ralushle accenins to ase knowledge of primilive man frine the expedition, and will owe an dehis of armitude to Hin generous bonofactions. Moners. P, J, Maekig sed Co., wha hnve made the axpedition prassible. It in to pe hoped that the sdmirablo example thas sat by theis will noen be imitated liy otions to the mettual banefle of seinece, vodastry, and onmmerce? fap then interesta of those various siden of tion sationsl life are not conflieting, hat enmplementary and harmonions.

## Afrtoa: Agriculture.

## Driberg.

Husbandry in the Congo (MaN, T918, 83).
In his raviaw of Che Bwhletia Agrieate dut Congo Beige, Mr. Torday nppears to donbe wheither eivess damage aropa, I lisve not seen the poist raised elaewhero, bits nay awn experience tallies with that if M. Lacoablez to teatifying mo the deatruetion done to erops by these animale.

Referenon is tmide to the Alalo wihe, sad it may save future misumderstandinge if it is noted that lig this deaignation (or by the name Bululn) the Belgians lathitanily refer to the Alun a Nilotio trike liying on the porth-west nhore of 'Lake Albert and the Nile, partly in Brilish and partly is Belgian territory. Thede language is a dialect of Aelioli, from whom they nulativided late in the sixteenth or early in the seventeenth century. An agriculturalists they are infinitely inferior ta the Leedu, and, tbosgh ebeerful, have little of tho stamian and verve of neighbouring Nilotic tribes. There would appear to te pu formanaion for the statement that they are bostile to Europeans.
J. H. DRIBEBG.


P10.

$\mathrm{F}_{10} \mathrm{O}$.

# With Plate E. 

## Chathem Islands: Canoes.

Skinner, Moriori Seangoing Oraft. By H. D. Shinnor,

The Morlos, who Inhabited the Clastidin Ialsods and we now pristically 34 exthet, have exetted an interest comparable in frind, though nint is degree, with that aroused by thu extiact Tammanlars. Uutil quite recently stodenste of the thee lave liad litule hesitatiaci in dusuribing thou as a liranels of the Muorl people delven to the Olinthams mayy gonerations boge by tribat wir. Witbin the last two or three years, howaver, tils view has been ohallanged on linguiatie and ou other grounds, anong which msy lie noted the diffarnges betwon Msori and Moriori vesela.

Alezanilor Shand, whoso work monong the Morioris outhed bim to a foremoat plaen amoag fiold-w-arkant in Polynasin, distiugnibbed, in all, fons alnases of vasael. all of whish ware compesite in struelure, and lato nope of whioh did she dug-att treo-lisink enter aa a stractiaral slement, Tha sbanaer reesives a very empin asplanation is the absense frum the flora of the Cliatiame of any tiot from which
 Maka-pukara; Within e framewark mile of withpos or of ahrocke wood were
 ruquired buaganey, To thle chus the venelr proeorved ta the Conterbury nud
 acraotare to the pravione one, exoopt clas bogyasoy was supplind by rimu-rwpa (bull

 teen prenerved ase gash amajer than thls, is wbjeb they agrne with tha acoounth of Bringhtan and Juhnsiose ( 1704 ), abil of Weleh and Trmyern (1500-60), (3) Wohapathir The etruoture of tali sype of uraft socms to liave heen similne to thas of (1) asd (2), isa anly ditiormed beigg the maels grapler alse. Ith lengelt is statud by Slinhd na 60 loot, ite begadth 8 teot, and le dopth 5 faes, Pahi in Mauri denctei a lapge, geq-geisg canon- (4) "The futsle kind of onnoe whit like the Ner Zonland " Hoblihi (or rafr made of Ranpo lonves thed ia bundias), bas made of Kopari (inax) "Bnd flahavle (fors) stalks. It was quite law sod had wooben lmagey of monf
 " hands. Whik a folr whad the bonene (rie) ans atarted ot us bea his asobenger to
 "Is was balled a Waka-rmt"

Is will te seme that the foner claseen of teseol desoribed by Blisud beloag to two typer The wakavri ie cognate whit the Macoi wokith, and falle for foo further discasaion bora. The athar type in exemplified by the Cnnsertiry Myeetion example (Plate E, Flga. 1 and 2), of whioh the lollowiog oxoollent desuripition bae been aent be Jy Mr. W. If, Ekinnar, Comminalover of Crown Landa for the Provlowe of Canterbury :-
is Thes enoce is of oomparstively madern construetion, has built upou the lines of the original eances of then Meriori.
"The firet sevp in aonstraction was the makiog of then framewark, the banis of Which wae apporently the donbse lseol of palr of rumete. These nomsurs, which are 10 inches hpart and $2 \frac{1}{1}$ lnchee doep by $\frac{1}{2}$ inch widn, kesp the frameworlc along bottom clear of sand aud pebblea when benching the eanot. Thas way necesarar, as this framework waz made up of filmsy matarial which could not atand the setion of leaching, he the muncthest banding would soon break lite frail frame. T'bo bottom

[^33]frwan ig ladi horigonsally hetween sad above then two keela aunl is made ap of 10 -imeh leagite of applejarle and matipo, taid 2 incbes apart at right angles to the leogth of the caboe. On thir reabs the flagr of the ennos, which ts maide ap of closely paeked flowir aume. (Korar) of the flix plant (Phowmiam tenax). This pheking is

 fles bindloges. The fremowarl for the sides is neti vertically, it sight angles to the hotom frame of the canot, and is made up of the naze small bat tough and plinble matarial, wopplejeck sad Motipo nail small stames of Ake-ake. Those are 18 haher in leagth, are laid 2 laches apert, and ras from the sters to withia 18 jodica aff tha extreme ond of the square lsow. Upos the outalies of this Zame ars latbed the side hoovis or pualding, constititel of flax eteks (Korans) and tern stalks (Arwhe or Previe aqwitise), the whale sirovonted by a tough pole of tha Matipo slapots, whith rone froni and to sad of the aroee along ite top odges Emusdately below the pole
 tighaly boinat toguther lengtliways liy lathlags 2 inohers apmori, is laid in lengtha and to mil along the canse. Thase would give buoynney if the vessel were damily lalea,



 two roin lif 10 faches. Betveen them thit logn of the oqcupante ware oopteed when beatod
"The mate, five in nambles, were male up of bhot pioeer of forn itatks, 7 sucher in leogth, lahit slosely und lashed sito ly side, mopparted on four orose-
 plane of Aleaden (Olearia Trueversi), which woohd the the mais weight of power or paldiar: Thene Ahe-ake slala wern 15 luchen long by 5 fiehos is depth, end, wish the ratline havy ulato of the sime wood at stern, make up the ouly soldd itmber ahocil the atratras. Thes atars pores, which given stabilicy to chat part of tha
 of that moel dansle tronshruly, the Adeakn, whleh growit in lusuriantly is the Chatbams. Tho alah in 19 ( incher over aft in lungth hy 6 lueber in depth, and wan rodoly arnatuented by two roagh oarvigga of birdin in encreantional siyle. Tha plotograpb fiestoges tive shors rodir ant frow suplioga whide were lanhed to the lower latomi atraggtiening ther ar sapling, ted projeted 2 or B inches not over the upper rod or rin of cance, ikn loot th tisob case boing firmly embedded is the Honing miturfal. These Ttake in the the thole pins or rongh rowloske stieles oguluse whioh the pailllos workel, Shand, at pagi 10 of The Moriort People of the Chathan Islands, suya, spesking of their canoes, 'They wete large enaggh to oarry sixty to ' reveev people, nad ware propelled by paddilus (Aiwo), whiah, vontrary fo slie mathod * of all otber Polynealans, rore used by the crews sitiong wick thelr backs to the - bows, as with Ewropeans, nod maiting une of a suppors or thole-pia againat which 'the pudde worked.' Also 'They sarriad fire with thern for wormth, which was ${ }^{t}$ placed on stopes and earth on the floar of the rat-vanoe. Their raft-enones leyer ${ }^{4}$ had sailo: the inrge wid sea-golog ones reire ooilled Waka patif, or Pape.'
"The obly ornamentstlog, spart frow the aonventional blets caryed on stern hoard, were bricher of white sen-birds' Ponthere astached to dre apper eige of the eanoe from abreast the frot scat anwatils, and uarried out along tho two projectiog prow.stieks, whose ands were tanch earred to reprosent the bend of a sea-bird.
"The leagth of csaoe aver all is 13 fees 3 frolace. Leugth of main keel funners (straight boitum of ennoes), 7 fect 6 inebes ; ditto of confination of ranners ourving
spwarife to onil of square, prow, 4 feet. The extrema depth from top of barge-rod to bottom of keel ramhers, $17 \frac{1}{3}$ iaches.
*The senctare, desigauted by cosartasy a canee, was if reality a glarified Mobi or rafl, able to be propelled sad atenred by oar ne padlies. It wha not in the elightest way waversight, and whan fully Inder minst have heen weter-logged to the sestis. All the packing material was of the lightest, aud mech of it , zoch at the flax tticks, almost as buoyant as sork."

## "Myasureymesto of Casos.

"Lengib aver all from board to square end of bow
. . 18 teet 9 inebise
"Width over all nt stern
"Width isside from roll to roll of forn stalife
" 8 eats
"Width of anae at prew, aunde -

"Depth of canoe ovar all, top of bargerod to floor " . . Tt ${ }^{2}$

"Diatances betwoest seaty frown No. 1 at starn to No. 9. . $\quad 17$ a
Da. Ne. 2 aк siam tn No. 8 . $\quad$. 19 "


Do. Ne. 4 at starn'to Dis. 5 . . $18 \rightarrow$
Do. Ko. 5 to extrame ond of low - 2 teai H . it






If will bee sien that the Moriori "wath-larough vanoo" differal fumlumentally

 of wblab tbe Morlor Haha mey very well have been sapenaliation list, bowevar, bein dundibet by Colebio"; "Smsil ruft, hanled up gbore higb-water marky earh "being 8 of 10 fent long and 3 io 4 thet wide, corsposend of only a fow woull
 " betwean them. On tbese the Fiust Conat Meirle weut out to finle in deep water, * one out each, and, whan opportunity aferel, to a ship wifh a pig of iwa fastaned "to the rati. They satd these ratin' were quite nofo-more so, tadoed, than a nowll " or in middieasized eanos, an brere whe no dasger of upaeliing." Poluckt aayy : "Abong the sarif inhalisants of New Zealand, santoen were made entlouly of the " bulyub. We bave somi, between Hoklanga and Hajparit, une of thane vescele " searly 60 feet fo length, orpaile of holding an many persous. They werg remarkIf ably thiek, formot patirely of mibles, exeept the fawarta, and reambled the modet " of a cance la arery partimalare"

The Moriorl Waka-time may vory well have nombined elementa dorived from tatt
 fimber from whieh a ang-diat canee conid be made That the Maoris used kulp for fleats in proved by the presence of sacb kelp flosts in the enve dincoreral some years ugo s! Olain'g Bay, Buale Penipeala.

The bese of rowing, us opposed to paddlling for the propulsion of annoss has been recorded amongat the Maris on then west eosst of the Sonth Inland, while on

[^34]oar of the Moriari type was found musy years ago in a cave at the liesil whtera of the Taieri in Otagos, anil is mow in the Othgo University Masmum."

## Archeology,



Ae oue of the aldest memier of sha Royal Antloropologions Institate, who belonged to ite preiestasaf, the Eilinolnginal Society, I urnse at ahort apace in whipl to protent against


Fra. 1 the lingertion of a paper ta the Fehraary rumbar of Man, whiels is not warthy of that poblienticts.

The papea was wition by Mri, J, R, Motr (Mas, 1919, 10), is heudet "A Pisea of Carved Chalk from Bufflele" and is illisusted by fart figures.

Mr. Mofr'A contentión is thet fiso plane of ybalk is qquestion in a representition of a wam mothi by nome primitive man. In idereriber then objnet in detall, ift fone lege, ith lably, and adde it The sonlptaring of " tbe beed, vaz, eye muak. " and olephasellee-libe foat "In very striklag, and tore * tifles in tha sheill sud is sofentrey of the andient '" orafoman. The dorsal ${ }^{4}$ view (PLute 13, Fig. 4) " bhows the woll-soutp${ }^{4}$ tural baek and puateriar " portion of ita lentad, and is is appeure that all effurt ${ }^{4}$ has been minde to repte" rent as hill, ${ }^{18}$ eten ett,

Thib astotioding statemeat refors to an object whith it perfeety finflist to geologiata nod palesoritolagists. Largo uiumhers of similat apecimena hatio bees found. I have four of thom bofore my ( $\pi$ bieh, with othere, are in the Nataral Hiatary Moseam), asd Wate lent to mo by my frleniil Dr. C. W. Audrews, whe is a skillod paloononologiat, In exbibited then at foe Goologisal Soolety, very zouch to the amuzement of that body, (See Fige 1 nad 2.)

[^35]Thetef objects queur emotimually at baqifers from the elailk is the pont-tertincy beds of Eastern Englani, sod sre known to the ingonigons men who work she bods an "pignt" They ace in reality, as is well known, ensif in chalk of the interon! chmmbers of Ammoniteg. A frw elemeniury sentences on thew may he bere pardoned. Ammonites (so callod froie their scpprnsed mesumbanes to the hoche of Jupiter Ammob) are in extiaes series of Mollusea, alleal to the Nugelles, They came to at eas at the cloee of the saxisidury perioj, while the Nanation of courats stll remsine with ofs. Like tha Nantilon, they had apien shelly oosriat. Jug of a serius of uhambers (Hpta), gralnally inecessing in eise from the nentre 10 the meath, in whiels the noimal suatestivaly Ifred, forming Itseaf a naw uhamber to acoommodate ith larigor niza when tia plid ena pincled It. The autuml Ilred buly in thes gitinemost clesemiore, whenh laak air apei monats. It, lapwaves, kept up lia gounection with the enightand foums in wbleb it lived by nauana of a luba enohsel in a anleareany covepling, and pabiver thrungh a earica of perfonutione it the several walle of tha shenenter, Thes different nbambers, exaept the treet, is wbleh then anit mal livod, remsined Empty onth lon dauk and Jagay, When they batame flled up with diffarant materials, snd frequently wibi mienli. When tbe chalk beiln werk die. pupted the fonsil sherle of chese Amanorition were dea etroyed, but then remaisel Lhe cente of the sapth, or oavifies representhg exnotly the miusta contonie of theif triter aurtace. These ber camb detwhed (xometimea théy goctur is groppe), abd, nu $t$ lenva beid, oeeor aa bondees it the drift. The projectines minaken by Mn. Moir for repvesentations of butumoth's limba siraply


Fia. 8. suewer to the hollows in ita sell fie whidh the mollase kept same of lis antt parta. Thie je the whole story, to well koown is all students of Ammonited, It is antural that laboorring men doould conalder the satunal caeth reprasentations of pige, joss as the poor people at Whish in old times thonght the Ammonties were petrifled suakes whose headt
liad bosa out off by At. Hilds, but it is Alssovesriligg to find a atill more extravagnht explanation of them in Mss, which is eneh is desarpedty esteemed selentifis jonraal.

HENBY H. HOWORTH.
New Zalland.
Beasley.
A Mari Food Howl, "Kumete," By H. G, Deaslry,
Bowis of vartant formi ars consmoe from searly all the Puelíc proupa, but it is a matter of dione serprise that these ane the exception whan reviewing Macei benseliolid atensilf, Hemiliwn "lluscrates a slugle opeoimen, whiak sooms to tiee to be of late work, and I recall anehtur that wsed sold if London gome years ago, those threa being the only onas that lave came to my sotios. Mesiof ipeaka of estlog a ciaryol howl at ataknior is IBfit, whide serveil na a panch bowl, and


Fas mach ralned by the naskem, who said that it had bean shed for hostingt watar With hat stiveas. The speciesen iluntroted is offriavaly of grosi ogo asd is cest from the solid; it in buat-shapeil, leing mide of the tail and saerowing towand the head. The figurs in of the mumh-disaused biri-bended trpe, and qufortanately laoke the point of the bsak; the haidr have the ftree fingers so common to the older sarriggs. The whale of the outar aurface is carved with a beld aploal pitters, whilat the brond end is nem treatend with a foll-aired female figures, bat lassead of the bird-hnei as sarved prajection is provided, doubtess to assiat in earrying thn bowtit this, when full, mast have been of sonalderable wsight, sluce it weigh nearly saventy prondis whal oupty. At flos eight the upecimen migat be saken for a form of ooffin tuah as was illastrated in MaNt some time ago. Ati ingpontion of the taner adge, boweygr, shown that it wha werer Intended to huve a Had, not ars there any hales for ite sttaglamet. Furthermare, ithe suriwon is quite free from deday, which would hardly be the eass had it heen deposited in s save.

The leugth from heal to thil in 41 inches, tho grentest widich 14 ficeles.
H. G. BEASLEY.

[^36]
# Procoedings of the Second Pan-Amerioan Soientific Oongress. 

## Dy A. C. Breton.

Thia Congrean was hold at Washingtoo, Detember 17, 1915-Jenaary B, 1916 (the previous one having boan at Santiago, Clile, in 190B), and wat athenderl by delegationn fram the twenty-ase republies of the western bemisplere sud from Canads. There were nine acctiona with forly-five sule-sections:-

\author{

1. Anthropilany. <br>  <br>  <br> 1Y. Beduculim <br> F, Aluginetring. <br> V1. Internatinuin Law, Priblie Law, Jeriapruitiono <br> FII, Mintag Atrailmgy, Eoonomie Geilagy, Chamiatry. <br> YIII, PokVis Finth, Merlient Helemai, <br> IX. Mrasportuifor, Oommetos, Pisabe, Pevilios.
}

Sueh a hoge programas was difieali to mange, but Section $\Gamma_{1}$ mentiag in masalition with five other sotietief, proved very naccessfol, and the prooeding lave
 which twenty-one ore is Bpacish. Whilit tome of thesi couslat ahiefly of gonarnt
 repearch thore demerves anoourngeciena. If in is vist fiald that has been seardoly serniabied an yoh. No one knoest wbat may he found lierd, aor how masy sbeorian mey bo upaei lotur un. 'Cuppale observens are wapted; anatent to reooed fauth and lespe fanclea alone. Bat il taken ompiderable trabatige to botome all obeerver and
 the diotum that Man was not amoethoneus in Amariok. It is nefosary, therofore, to say that wo know for too. Itule of Man's orfgin at presess da apesk with mernaty. Imanese chages bove takes plabe in cemparatively reoast ages over the wheln of
 sludidation.

Only a fow of tim papern sas be notioed here. Anamgat them, Lais Thayer
 information on the "Origin of darnames in Chile," frimis as series of decuments of 1907, aleo from archlval, elootonal lath, and amaterina. OR 167,400 naman, 159,000 wers of Bpabish origin, and of theae more than 6 g por oout. wew Cantillisn, with 14 per cens. of Bagquh origitis. The hardor, wore self-rolisat ahnyatest uf Chlinns than of other Spanidh-Americans, may lie due te this deecent. Thote are about 44,000 Isidividush with Germino purahmen (notanlly searly 1,400 different Germas niaraeb),
 have bean na importans factor, though not tisibly is aurusines, as they have sidopted umally namen belonging to the ocuntrins where thay wame fornaerly setfed. It colonial times ie Obile they eojoyed tranguility, thase belag no prejudiee ognant theac. "Perlappe the direching dassed in osif-consity awi the greates part of thair "energies to the Hotrew hlood in their vaine."
E. Boquetie Pinio, Professor of Authropology the the Mumet Nacional of Bio de Jenelro, writes in Eaglist on hir sxpedition to the Ladians of the Serra do Norta in 1912, and gives plotographs and notes otr disesees. Thase jeopla wers unknown antil Colonel Rouden came upou them in 1907. Some iodlvidande hisve waved hair, and there may bave been a alight infusiot of aegro blood from escoped slaves of the gold minef of the Guaporè, Although in primitive condition, wearing no oleches, knowing nothing of boata bven foe eronsing rivarn, without eartbenware or hammoeks, thay consiruat buta and aultivate maize, mpnihot, urnou, and tohacoo, cat down trees
with stone axes and the ald of fire, and bave long straight bowa aed arrows. For fisbing they ase arrewa wift three points of bone. A great ethanalogical collection was brougat back for the Mascan.

Dr. C. Moralse Macedo bad fow papers an the deformation and mepanation of Peruviss tkulld, and vartatious of the lambde, with photogrophs, altagether focty-


General Cuaryo Marques, Piesident of the Aeademy of Blatory at Bogotif, presented s thoughtul paper, too long to be zandily sammarised, on she "Origanes atnografiens de Colomblis," minaly an scomut of the Carih ingaralous up the rivers. With regeld to the real nailyo populatlong, the olvilized Chibehns, Qulmbayns, and others, lis says: "With the Spmelah ookgaest and the immenye shipwrock of the ${ }^{4}$ Ameriean race, there was Joes tha moss futerassing and importani part of its " traildions, histary, indoncries, aed arta."

Bo litile is known of the arolumalogy if Vaneauphe that the Notes lyy Lnia R. Orbicine (of the Ministry of Jatermal Afraina), nre of empneial ititerent. He exenyated cotnetary mopads in the Valee do Arague la 1915. The d|sitiot wae pbandoned by
 muitifude of tumall, varying from 6 metive to dinmeter to 80 metres, hy 0 metree bigh, of blabe asth trought frass gome dinances. He feasal polished batnbeie of diarits and nephrics, slay fifarioen of archine oppe, and otior objeens of olay. The Loulien wers anar the seftre af the monsua, sometimer in a squattiag porition und
 Estedas I'retinganas and Zamona lie lavenigated unother dasa of mound-platorma mader of eardi at liend an ntone, no that dymmile hid to be uned. Theie were flat on top and some had tro gralet or vtepy. Sotblag at buonequebe war Jousd berte.

 moro-motote wide, and windion ovar bill snal dale.

Dr. J. Tollo made sarefol and raluable exnavationa of nemeterion lo the Yalle do Noyest, somthefo Pora, raagtig frow the Inca period on top, pest the Tinhonnnoo (whese the tombs were more ithe anderground simallingit, cyitadrical of qualragolar), down to the Nasen asil the prato-Naxm. Tha latere were no maned by Dr. Whie, the dismaveror, bot fboagb bendath in poaition, the whate are of the mort perfent make and the painsed ortinmental bgarat on them bighly conveosonallied. The protoNases tustlen are quite wonderful.

Curbful work in shather lime bes bees done la Branil by Dr, A. O. Strmeoses da Bilva, in this case on the rookr taed as grindstones nt Catis Yrin by the easly ithhabitanta. The grooves observed vary frome 19 dras , to 170 ems and ate beally supposed to have boen taused by Clifint whlpping the devil. Thia paper la in Eagtiab. The very interesting asoount of the so-called palmolithies ntation at the port of Taldal, parth Chite, by Aurelinao Dyarsun, Direstur of the Echoologioal Mastuas at Santiago, aball be treated eleanhers.

From Central Amation thare is asoad notiee of the languages of Guatemala by A. Recinco, Uuder Seepotary of Katernal Belations, Tbe prepent Mexienn Government contrinat its patrosage of arehnsology and deaires collaboration.

Me. 8. P. Marley bae dobe excelleat work it collecting the dates that ean be Ideatified in the inscriptiona on mosamonta found In the ruined aities of the Guatnmalan rafion, sad given a teries of diagrammatie maps showing thnir augoosation. But apon this he bullds an uiry fabrie of Meyn bistory, mneh as if oue shoold go round English uburchyarda noting Jabsa on tombatouna abd, then take for granted that the earliest of each denoted the foundation of that places. Or, from mosumantr in Frabee adel Italy with mimilar dates, conolnde that the same people
and the same hagrage had prevalied everywhere. Since Dr. A. P. Mandslay dincorered the laitial Berlen in tha courne of sopying the ioseriptioug (from his nasta sind photogrupha), and theroly gave the koy to the syecten of datiog, described to the Royal Sociaty, June 17, 1697, shere has not been grest adranke in dexiphating She uncliar inscriptiona. Mr, O, P, Bowifioh hse lean a Dne plouser in luringing togother with patient diligenee all the evidende aysilable, asd Mr, Morleg has thet aredlt of fibding oot thar she later moummenta at Quirigua and slsewhore wart trebted at Incirvala of frvo years. Miorough atudy of the langiages and modea of thouglat of the difforsnit nationa Tho have soqupied Oentral Amarica may land to some cloe to the sucientay mothods of delimeation, beyond mere slaten nad evemberls,
A. C. BRETON.

## Africit: Hairdressing.

Driberg.
Note on Hairaressing Among the Lango. By 7. 11. Driberg.
If trallifow is sotrest, the Latego of the siktanath entary unal to wnos 30 their linie drosad elohorately nfier the presist montom of che Bhillaly with whom they ware then eombinel nader the name manarchy.

There are many Ibdlondoass, lewevor, whele peove that on the Hamith luvasion
 before migratiag sacti, fle form of Hamilis henddrens steat now smonit tho Karamojo



 the Eranitio nimg.

Aa'both the Sbllale hepadireas and the Husafit ehfgren are alrendy familar
 will procesd at oboe to mote racens dayalapmente in methuth of buintreialag.
 bat thle I sitribite patity to the fat that Langa migrations bad renioved then considepahly fram the istarsee of their old Ilamiate associater to poaples by wam the ehigroen wief not work, bui vveu mare to the slange is the uatare of the

 marthas, the cblgoge mast bave proved an nanoganon nod an lmpeditrat, nad la wearare would have been oniy too plad to diegard it. Whan an tops of thie thetr

 Which have now oompletaly shanged their ploysicil nopetuabee.

About this perioid wo stylen developed t-
(1) The hatir of the bead was sllowed to grow long, aid fato il wewe woven, uided by a plasteriog of olay and dhall, cook'y featbers built ap inso the appearanen of a busby. This busby was nollest komo, anil walo was the term bsed of dressing tha hals If this fanbiots.
(2) The arown of the bead is cafled tok a larm which is alen tused to inullente hils nod some mubsequest methods of hatrdreeting. The bair ia allowed to grow anil when it is of 5 saitable lengtil thero are threaded inte it small dites of eatrich eggehell and the black seede of a eobarniculue callod ackoh, forming a ocmpact eovering, on to whiok red ebalk is plantareil on occasions for decorntive offeet. As the bair grows, the weight of the coiffure pulls it bnekwards, and noe bands of seeds are silded above the lrow, till the hackward teadency prodaces a sagging mass of bair and seeds at the bank of the nook.

On their latroduction, white heale ware sulistitated for the achali seeds, patteras of lizands and fanoiful figures heing pisked out in anours. On this nase red ebalk was plastered lor oeremorial occasions, After the bonis have bsos fastened on the buir, the late is sloged to remove the loave ends.
 pot of beer and oue ebicken th the barker), the toh or the fomo wese not undane for mouths st a time. The term omployel in this case for drosaing the hair ia dingo,

Solsequently it was found that the tof and the bone (espreiallf the former) look slmosi an well aven If detached from thes bead, and thay vere frequently reinoved by anrofnlly sbaving the hair alase to the head + the liair thus forming in felt lining to the band sap or the feasther busby**

By a further prouess a skill wap of folt wha made by noxt rotnoring the buads end lanving fibe hair liniog which perspiration ath rhalk have donverted into a eloth-ike textures The okoll eap is called abobe, but is ouly used by the very ngrall, and avest wo rarely.

 boll perpendicalar and berisoatah, isto which the Wharer's own hatr le worked th sush a way an to form a elosty woyen folt uaver. The maploted hetmat is then oramonated whit riges and boule of beaten brass; anil is nomotimet boatod with red bhafk, Thia fobhien of liesigeser doen not date buek foe mere than ten years, and wha e natural carollary to the prastre whinh tima urigicalod of dotenhiuis the tod sad the hane and shavieg the hesd.

It is not banal to thaye the hand sumpletaly, exoept in moirning, and there
 of then being Whanitesl with the patteren adoptat by the Joleo (Kivirondo), The stagl fer of ane pat of buer and one ohingen ia payable to the barbur?

Thase dekiges are kenowi by molagland farmat a fow ouly of whiloh are here appectided as Ulustratian the dirently at enatom, rhitb, with two exoeptions, in
 whea one hean is mied thut Ron slinviog of the head is a rovest hnowstion: het
 be attulbutad to meh individual osiffara, is note 'the loes probiabio.

Aehmedi, the had ahaved eloas expopt a top-knat.
Atiro, $\ddagger$ a apace of thren fingoen shaved from the crowo to fordiceal. (This muse bo dotie aftor killinit eis enersy.)
Atare, a mode resurved for twhen, who must adopt B.
Alhim, longinh hanir alt arer the head.
Arut, the hair shaved in patchas.
Apani, bate shawed nhort all orer the liead.
All moden of hairdreasing ate to be saen at the preaset day, with the exception of the Shillak sud the Hamite elignon, thongh the permauent tok and kowe are infrequest escept to the remate sorilh-bsat Bul while these modea lave conesdarably decresead it popplarity dariag the last ten years, thare is at present a teodency among the young wes to reveri io them, sod ta abandon fhe modarn habit of shaving the head.

The practice of women has not shangnd and from time framemorial they have laft tbeir liair unuah. It is ansinted with eroton or semism uil mixed with asbea

[^37]or chalk, and twisted lato ringlets or strands bianging on all sides from the erowa of the beid. Womeen dress eanb other'a hair, 4 tedioas propess of hours, but charge no fos for tbeir servines.
J. H. DRIBERG.

## REVIEWS.

America: Anthropology+
The Amarican Indian ; As Introdvetion to thas Anthropology of the New 39 Wirld. By Clurk Wiamar. Pp. sill +435 , New York, 1917.

Wissler.

The magnitionas oxample set to the reat of the watd by Amestani antimogn-
 the fodigenous eulturg of thenir contintot hai had one ilikatvantige. The immediate task of sollaction hat heen so absorhing, nad tha material has grown so raplaly in volume, that listlo bna, entil hately, bocu Labu to summarise the results or ahow thoir baaring rat the thaoratical problemis of Antliropolagy. Duriog the last faw yeur much has beats done to romove any reproueh whielt stadgata thewhere might be
 Wurthy wid eomprohensivo sunount of Anserieau sultare, for the Hondlowh of Amoriean Indians anflers trou the hausi disuarantagon of maltiple pndionship.

Dr, Claele Whanles, who bat now sappled thit Jong-fols want, is at the hand of the Antbropelogtant Depacisest of the great Ner Yoels Maseam, and is thun in


 show the statribution of muph featirsas of eulfure as food-rupply, use of naraotes,



 obaptori deal with arolimology and somath chementrs.

The only eritielew whob dan he pasand of thin mais dnasriptive portion of the boole la thas Dr. Whaler might linvie desk morn folly mith the socisi atd




 Amerionn Thdian, sid it ansble to atody as frat hand the vast wass of liforature of which it is mo nimirable a synopais.

Inelimentally throgghout the book, nod explialty in the flaal elisptet, Dr. Wialer deals with the origis of the pre-Columbian nelture of Amacries, bnth his lonoing throughoat and his final esmming-up being defnisaly in favoar of ith easentinily indepaodent charactar, Sisen bie argument har boen regarded as eonvinaing by one of the mosat dietinguinked of Auseriean ancharopegints," ase who bas bimalf ibown a eas uncorapromining hostility to the idua of exteral influenoe, it fow wordo whil be anja about it.

A santence on page 359 reveals a profonad misuoderstanding of the resaboling whils bat led many Eunopess studente io foyour the bypothesis of external inflomece, When discusslng the similarity betwest the age-zocietios of tha Plaitis Indinas and those of Malapesia and AErica, Dr. Wiaelor askn: "Whent ebtanees had those tribes " [the Plaing Indinas] to meet the Melnnexiau or the Masai of Africs during thin "pariod [the lant $700{ }^{\circ}$ yenm]"? If thit pasming represents the curreat viow it Amorian of the argument of sbe adroentes of tranmission, there can be to hope of

[^38]acrames as long as it eoatinnes. No adrocate of transmission an thia side of the Atlatic, whetber Brifish or Germaz, Las ever imagined that either Melaneaian or Mneti Lave etrme foto coalsot with the Plains Indinas durisg the last 700 yeare or st aby earller pariod.

If the exmalnation of two cultrines shown the preasese of so many points of similarity, eppecisily in detall, as to lesid studaria to believe that the saltures are rointed to one abother, is in asinumed, nat as Dr . Wiasler gapposes, that the iwn poaplea have haen in onsthet, bot thas nome thirl taluence las come Into contagt with both, prodnolng on the one laed similnrity, and an the othee hand euel differenoes as wa shonid nxpeet to follow the inirolaetion of a now Institation in widaly separated and very differcat onvironmants If the atnuly of tom ago-anelesias of the Plaiun Indicus, Malanealans, and the Masal altoalid feed anelirojelogints of this achool
 ite way to these thren widoly separabe regions, and mould then eadenvon to dincorec the nature end place of urigiu of tble fulflemen

Dr. Wisaler's atguneen is also vitiated by bis adoption of the enpront vien, a view hased antipely on (fnditina, that tha Polynetinan aww reanne arrivale io the Paofloc Dolloving fo this remany, ho arguas that they annmot have infuencod the
 the indepocidenoe of Ainarions eflturay is bere made fo yast on the wholly untebable

W. 日. R. RIVERS.

## Ritust and Beliof.

Hartland
 Norgute. 1914,
 has been too loug delayed, Dr. Hardined diaplays the qualisy apparant ia his mony provione worlsu-n Wide sequaintanee With the litarnturd of antbropology and folkfores is elear presebtation of the resnlta nt hif rund) the soggeation of theories, and a loeit style. The meet twportant esany is that dovoted to the rolasions of Coligious and Moutie Us Lnsists ao the Pandansental unify of thene coevoptieni, while be noet not deuy thenir gradnal sopsontion and

 " alabornted and orgauled espethur Pur sgen durfog this proeesa angio and " rellgion must have been futagral parte of one auothef, as they oow ate in many "purts of the marld," The ansay entided "The Boldanes of the Cutis " hrimge tagethor miany examples of the methods by whloh-mees of the lawer onlare nourou thair gois to uley their will sal graut their dedicse. "The Haintel Widoer" filastrated the theals fiat the posaibllity of acasal relations botwons tha living and the dead dependa upon the beliof that what karvives the patantrophe in death is aupposed to be a senteut and powerfal being. "The Philcaopby of Mourning Clobbes" showe thei "many custorns, nometimen botn of widely diverging motivon, " obureggo in at atollarity of expreasion. Hesice it is impossible in the prenent ${ }^{4}$ pute of our kenwledge dogonsically to ansori a sibgle arigia ${ }^{H}$ for these practions. " They are the expreseion of the percbologival reantion onased hy the shoak of denth " aud the onosegnant breach of the circle of kinship and other noetal bonds. The it cabso tegultt frome the bevilderment and terror cansed by the entry of deach into " the elrele. The sondnet and gaft of the mouzsers are the natwome of griet and " sympalliy, butales of fese" The "Rite at the Tample of Myllta," one of the many unseb of rellgione prostitntion discpaned by fir Jateres Frazel (Adomis, Attis, Osiris, shind eele i, 36, et seq.) in beld to be a paberty rite: "A msiden was not
"admistel to the status and privilegges of sdulf He sutil she had been ebre" mentally dieflowereL." "Thay Voles of the Stoae of Deatiny " brings tagether numesous exanaplas of the eastom of selectiog a king by magleni fites, as in the Intian examples, where the rightful beft is deaignated by on elophant or by a sake. Fied workers In antbropology will be well ndyiaed to stioly the esoay, "Learuling
 of men of shen lower maltare are Iucitly preseuted, Enough has theen bald to Hilustrate the imporiance of this beok to atoulente of anthropology and folklore.

W, OROOKE.

## Anthropology,

Aneriean Jourrul of Physient Anthropolagg. Vol. I. Nos. 3 und 4. July- 41 December, 1918. Wushiggton.

These two pumbery contafis good articles in addicion mandal bibliographies of arrsant literntarn thaling pith anthropolngleal aubjerta. In No, \#, Adolf Sohuts, of the Cornagie Imptrution, Wralington, trata of the "Briation of the extarnal nosa th to the bany neme snid nuasl eartlages fie "hiten ned nogroea." Ha maye that mendy
 Liy Moyorlar (1898) and E. Virabow ( 1912 and 1913), on small Hnet of materia), The makor has lased hin stedy on thirigaiz haman beads, malnly Ameriosa negroes, the matertisl oustuy from the amatomieal dopertment of the Johum Hopliar Mediaal

 wat male of the profie of the noes, jaefuling the wing, by means st the dinptograph of Martla, after whab that right half of the hoete was diveeted. FIftern drawhagt of noses wh given.

Y, Gluffidn Ragger bas a paper on the arfefae of the Italiad poople, and
 the antly explorays along the couste.

 romnants of tethee who may luve waidered fee bafore reaphing tholz prewant babitat. Cerainly dien purirnias of an Abarol and Mapidian are exsetly like some Mexican Indasr, nad also the Seminoles of Florldar Dr. Farabee ange than Arawak are entirely serroamind ly Catibs, sail some bave Carib wives. They have sdeptod the Caril wong and danob, bas keap to their awn eagtoms. A man muit marty hig firsi
 may lave two wires, who arn tittori of voushas, and live lo amity tognthes. A fall rapart will be published by the Manmem of the Ualveralty of Pemnyryivania.

Dr. Drang Boas bar noted und tablet with mape, on the abthropolagy of 5 weden, but the roatorial is nonsty for definite ranulis.
 Antbropology la the Uuited States, and of shane men add iestitutions who have doun most to furcher lea progress, Co-operstiots should resalt it ralunble worl where there (t) such uni extensive field.
A. C. B.

## Folklore,

Fobl-Lore in the OLd Testament; Stadier in Comparatiod Religion, Legend tud Lass. By Sir Jamee George Frazer, D.C.L, I vols: Londou:

42 Mnemillan \& Core Ltd. 1918.

All stailats of Anthropology will woloomn Bir James Frazert's new gifs froms hets anrivallai store of learuing, est forld with methosieal eare and ulorned with his
 the very bagianing with the Hebrew varsion of the Crention und Pull of Man, followed by the Dqluge and the Tower of Babel, the Patriarchal Age, the legeuds of the Congaest of Cmasan and the Early Kiage, and witdigg 吅 with a ifseussion of a unmber of questions upon the Law. Tbis is not to any that be bas given un an oxhastive trastlse in the seose that every point of the follators of the Hobrews has beet dentr with. Thatr, perhaps, is impoesilila, We mian masy logents, such at that of tha Sona of God and Daughters of Man, Del't WIfo, the Origin of Elranuncielon, tho extraodinary atory of the Dimembered Womas, the Fomine for Bayl and his bloody heuse, suid no sh, whith wonld requise noother work lelormed vith the ernditiou of oee m widely goavereant with the tradition of the wawld as Sir Jamas Frazer limaelt, But is ragard to the anbjecta whiol he bas swestec, ha has
 tham we have a ustenhess sterseloone of information, 10 oblab it is diffienit to add miush of ralide so for ho solentifio raseareh bes hithefto ganc

Sir Jomed Fragef, af becomen as stident nif folliclare, la not concent, howevar,
 The preliminary poosalete of the boak is diai fben acolant Hebrown an wo kenw then from their aplesilid Iteratire "had probubly pased itrough a stage of " burbarias, and sven of anvegery; sud baty probalility, lased on the sunlogy of " other raoan, if confirmed by ai axamishtion of their Uteratorn, which oontulns
 " Hed aupponilloa that thay wea zotimantary nartivale from a far lower lovel of



 in valis. At if ibe mone of the not listruetive pariges of the hook are to te found
 donelusion, for lostanos, that Delage taler are partiy exagernted roporte of netent ovestif, and partly mythical, lo shorenghly sane. And ynt I tam not sure thet it potapriterg the whole fath, The diffichity is In thet agormous oxategention of hiasarimal faota whioh the bypothasir postalaink In thls conneation if would bave heeu helpful to tives the anthor'n onnsidered judgemenis one the thinory put forth many
 elarpter of hill Mythe af the Nitu World, namely, that then Deluge myih is "an " uneansciosir attempt to roponcile a crostion in time with the atarnity nt mstepe." In ether words, it in as effors to find a begiming. In fovoor of this may bo ured tbath, with fow exceptions, tbe atocy doee yot appant in the traditions of the lowest
 acarocly found alsogg primitive natrone, while a nedies 'of onustrictions and desmolitions oftion are.

The discusion of Abrahan's Covenaut leade to some flluminatury accounia of
 It quastion was offered in enerflloe, why shatad laalt her body be buried in a common tarlal-place 7 In sonnetion with this we trifglat bive expeated some folereces io the bewing of Agag in pleces. Wan that a ritual saurifice?

The probibltion of consin-marriages by various peoples may well be dua ta a slowly-growing sense of kinakip, such an wy seem jastified in ioforriag from the forbidden degreas saperadided to the kinablp roles of descent, or to the irunsition from female kinsbip to male leinshijy, which nighi, temporarily at jeast, involve the reogguition of all coasins on the ame footing. Sir Jamea Fraser's argyment on the
arigin of cousin-marriage ne 1 ecerollary of then exchange of sisters is powerful and ensvinclog. The ilemonstration, however, of the priority of the two-alate exogamy to totemiam ean lardly yec los miad to bee establiabed. The suthor seems to have modified to soma estant bis view of the primitige savagery of the Arinto; at all avents, he adraita bu adrance of the Arunta organisstion upen that of tbeir neighlourn, the Urabuani4. This implien much mlich be bas not explicity Pormulated, The whole santion an the organisation of relatively primitive peoples lnvalved in the conaideration of comein-marriage is a ralmable sontribation to nathropolagieal reacarch, sid one of the mast laporiant paris of the bouk

Some of the eliapters miglot well have bean extenited, Sfarles of men heing *wallowed by a fish or dragon and lirought forth again alive, parillal to thes uf Jonnh, are fomil In very emoie places almoat all over the world. The Julgement of Solomou in in the Joisko, and a yory aimilar tuls ie to be reail in Glles' Sorunge Steries from a Chijeso Stuitia. It it aleo the sabjeet of a variaptare io Pompeil. Sir Junen has sasceasfally explained the lialle im tha priest's roles. Every old Ceikis saiot poasoneed a bell-donbtioss to keép the devils at sam's leugitb-and anciens bolle atifloted to oas of otber of the stina ard atill to be asen in Iriah nusoums. The powar of beallf to prevent "the ravagen of ibuider and Ughinigg"
 tecrlfeet of thander wieldel by The lang Vefone Clivistinaity same, could bot andure the beatiog of irnme, whioh they theoghe to be a apeoies of thunder: and Appareatly belle later took the giano of Clamder asid drume. At atl gyents, the toolls cumlif out away with the nound t a dalike ulared by Beitab furies, Bratoin knrigans, and the White Lusly of Zablehlita, in Botantula. In the sume way, in Japanese legand, the annnibel Ont were drives away by zbe holy tucease asd anued of the belle of the measutery of Bujsi Sas, fanmed for ithe rery parpose by the
 and womaling for the dead is pethape the most cacuprelanaive aecount of the nutom yei givan bo the worht; bat ice pontinaion that "the blood offered to the


 ant atriody relovash. After nil, it is olas that the abjeel wist Irrevosably to biod the sleve-whetser by his biool ar not wn must withbold jodgoment pending forther rasanrehed.

In ahort, thern if not is sectlos, larily, indeed, a page, that doas not throw light upon the dark places of haman saperstition, or vonatibate th tho soletion of pome neinnsifis riddla. Without nesertigg that avery poastion taken by "the suthor Is unassailable, the work is bogand dambe a ootnomatary of extroordianty value oe Heborey logend, beliel and law. But it ho far more than that. It fac a series of moougraphs on unthropologleal subjects, motived and beund togather into an unity by thelr relatibu with Helirew twalitions. Ay auch it will be prised by ntndenta, Whestuer of the eppocial problemy of the Old Teetament, of of the more gaperal probleman and lmplicetions of the seience.

IC BIDNEY HARTLAND.

## Russia: Archmology.

Tallgren.
Collection Zaousamflov, II: L'age dut for et Tepoque ditg de Bolgary. 43 A. M, Tallgren. 4to. $59 \mathrm{PP}, 57$ Figk, sil Platea. Helsingfors. 1918.

In spite of the terrible distractions of Finland sad Nusela, the suther ban subceoded io completing the account of the Znomssailor collention, our notice of the
firat pari of whioh appeared in Msv, 1917, 86. The dealiontion, "A Is Ménoiro ${ }^{*}$ de Jorepls Décheletre, l'éslnent urohêologue français, qui, en quallié de volontuiro, "est mori en combatanat prox la Frnace en ouiobre, 1014," pafficiently showz the surther's lasight on the present troubles.

The late periodn idenit with are not fully repreaented is the collection, but the lacid soconst of tham hare is a wolcomed outline of the fornign litarature and reaults. Thare ir fint aa aeopunt of two groape from the provinge of Kosan of about the buginsing of our ers. These are lutarmedlate betwane the style of Pismohor, of nec. 100 to A.s. 900 , noil that of 0 k , of $200-600 \mathrm{~A}, \mathrm{~B}$. The mont distivetive thingr are ac-called "spaulet" brooshes, whith gre trasad to on earlier reaetie brovels with three soavergiag branchas holdiag a ostoh for thit pig, Animal-handed bencaleta found with these are called Soythio, suil ase bueh ar secompany Copelo remaint in Egyph. Diea of chalcedong were bung from nocklneen, and this euskm was prolphly sarlior, and cartied fato Bgypt by the Seythian migration, as they weaur ubout 600 is, $C_{1}$ (Labyrioth, $\mathbf{x x a}$ ).

The Toloside afvilisation \#Le forther esah, in Perm and Vacka, roaching the Urake Thia is dividail linto thrae perieds ; (1) with Sogilife unimal forme abit late nplrite, sa, 900 be 0 ; (2) with Hat sastiagn, ribbed, and pleroed with sowe of bulas, having chains uf pandants with douk'noleot eade, whet many be termed "dsogles,"

 with the Bolgary and Arab elvillsations, from 600 to 1400 A. 10 ,

The Bolgary civilisation is that of the anotern or hilack Bufgoriaus (ase Bary')
 800; ware oouquerod by the Tartan is the thirtegnth onetiry, sud destroy od by Tianarlagg to the fifieenth sehtury. Their elty, Bolfarg, now dicert, in nurroanded by A rampart if walles round withle which ate miny rambles. The main perioil in from Ais. 1100 to 1500 . Then style to largely Ansb-Porilso, like what is found is Iggyt, abowing the wide dilluglou of thin style. A main festure is the variety of apring padtotion is the form of acimals, or cobilo, oflindrical, telaxgalar, or apharionh. The sumber deporiber the petern of a triangia of giahules as distisutiva,

 as Torebov. The open sge is anid by the andior not to to belorn Ramun times, but

 mouth, ie finally seniod by the neoount a! ane fall of mareury. The laif Graville Chester and that he had formed globaien of moreary in melh a pol, 16 thas suala a lube is oot only onsus . Forty such pois cams from a siugie site in Ruanis, sad they are affen found in Eigypt ued aleowhare.

An necount of the wnighte deteriter the Ruasian and Irak pound ( 510,408 grammer) as being the light denimal pornd of 50 Buhylonins ahekela or darics. It was dirided into 95 solotaiks, wheth wete equal to the Attio drachma, Iater there was asoller weight onfled the amior, of 750 grammet, whinh may be easters

 are ancre obseare. This eatalogan will bo eisential for sill stadeate of the Clristion pariod in Rusain, as cha lang bibliograpby arod is almeat antirely Russiact, with a very fen Fremala and German works, and thore it bo sudk geveral sumanary avaltable se we bave in this catalogue.
W. M. FLINDERS PETRIE.


ORIGINAT ARTIOLES,

## Apache Indians: Folklore. With Plate $P_{\text {. }}$ Hildburgh. On the Flint Implements attached to some Apaohe "Medioine 44 Oords." By W. L. Fildfirgh.

 so chacm, eoltecteil in 1900, by Dr, P. Fi, Goddard, Jor the Avertosn Muselum of Nataral IIntory in Now Yook Ofty. The fons anish ybowi ou the plate, together with aevernl oshors lielenging to the Mnyenne, are chntroterized by the Incinsion,
 linve bean utipllintad by tho mers of the sonde. The masafatare of stink Implanioits, anil thel emplogmant for the parpuace for whinia thay were aeiginally
 In fow atome stroyliendr ure still anmetmas maile by some of the Apache (tha
 whial sonad of the older ment, who llke to wear their uncient dreas ou epeciol occeadons, plave in the quivion they earry at meh simes. Tho mplements herrewinh


 workige whit objette of metal in the plane of the stame nuen of theif more of lnes vernile pradavesore, has heen raportod from many parfa of the worlh, whlle even in




 rertain whitaly quresil belieks. A fall extmination of thom dotiogptione ir beyonal the
 wonarst atemitor to the amployment in manfonl operbtione ot obselete filst implemenia IIf the Apmelot, and the nagereation of fuptber and more detalled tequiry, when nat

 the recmona spou whble she Apeahe hare hasel theas

The ohjecte shown on Plare F are ad follow, :-
Fige. L-A cord, formed of twe ntraink of lonikakio twigtal fogethor bnd thon
 imploment of whise uhitestlony ( $\Delta$ ) is eroccent-shispud ber of shalose (haliotis)

 Woru alagainsily naross ong sbonlder nad ushler the opponite arm as a protestion sigaiant masiles. Fach manth the asaumblage of objeots is palnted red, and sigag lines aro painted upon lif owiser's cheeks; sometimes bis boily alen in palated. The sosils widhin the posect were said to ba small anil block guite contly, nait from a plant forelgin to the dikerile growing in a twinted fantion. If a person

 If the growp of objects if worm, the wearer is asfo from being thote (Jicatilus Aprache, Now Mexieo.)

Fig. i2-d corl, formed of twa melkskin atrande, each obloureal red, to whieh the followiog objects ate sttached : A groyish flint arrowhead (B), upoo whioh is bit of abalone shel is fastaned ; on naller whtiak flins arowhend (C) ; a emsll buckskin

[^39]bag, enluarsed rah, containiog ${ }^{4}$ medicine ${ }^{7}$ a and filve tioy banis and one larger dise liend. Warn as a protection ageiast misslles, (Jianzilla Apheha,)

Fig. 3.-A buckikip strip, to mhich are athached the following : A farge roil flat arrowhead (F); a smaller tracelucent whitish arrowhead (E) ; a drab fint knife (D), called "Thander's knife," frow whata ap pleee at olther pall it missing i
 and souse black boads, The gaunt has it swell trasaverse hole tirangh its ueck, for alluching it to tha cond; it tan nat heon bedol an a receplecle for "mallolne," for ite apper and has not hem aus opeat it may popsibly lisve serveil marely as a rathe for the atverima of ite smail benker. The groap of objecta wos mors, as a prearvativa, st the seck, hy as hidic. (San Carlon Apuche, Aritnean.)

Fig, 4.-A string of glaus besals, to which the following ard attaobed t A large

 The sfring it a pitoe of ordinary while burd. (San Carion Apachan.)

Eig. 5.-A gellowah-lirown difist Eperarbead, roand the tang of whech is a Luekakin thong labld is plase by aibow, Worn as the seek as an ormainest or charn. (White Mounthill Spashe, Átizoenc)

 Apuche modicibe cords to none of whilh, hewever, are sey flint limplements attanbei.
 whatber of tha medlejanefani of of the Jaymaita iand, atter inentioning hio inability to 3et forfia the meaning of the altijnets sataehed to pach meits, he alds; "Some exoune "tor thle to to be foind fo the fave that slin Apsche lonk upon these nowfor in ado ${ }^{H}$ macred that strnagers arn mot sillowed to nen sham, mach leas buolle them or "talk ubout didm," Amoag lit objeots strachind to the corle he erentione (p. 0582 )
 a wood, rook aryatal, eagede down, olest of the buwk or ongiet, slawr of the bear,

 ${ }^{4}$ lightaing, suall tragmonis of the ahalone shell from the Pasife consh, anil mineh
 betieve thai the norda will protect a man while ai the warpalc, tond a bailel will

 " she sick." His ramarth (Jos, Bie) that "the san of flase corde was paserved for "then moes sacred and impurtast oceaslone . . . they were not to the reen on
 " at onos limaght them ont" "ppesers to reter only to enrata sorde, for io Ste limitation it agrees neither with some of hie awis abitumenta ns to the paen of the oorda bor with Dr. Gotdurd's nbecrvations ooncerning in uinmber of the cards cellected for tha Mandium.

The racioty of objecte wisch are exployed pe purte of the medicise eords, and tha variety of purposes to which suais cords sere appilled, saggest that the strande or asings themselves are probibly getierilify (bini parhaps alwsys) marely the means for supporting in each listance a series of objecta, to Thich objeets individually supernatanal pownen ith attibuted, intit each of which is ietended to aerve zome speoifio purpase of its nwa-that is, that a medicive cord is generally (if aot alwnya) not a device whiph his power as an ontify, nad had been constructad acoording io a fixed

[^40] charaetec, hatt that is is in mera fortaitous asyemblage of objaste with magical nitributen, corremponding to the string of miscollasogus obideobs mols ad ars worn in many parts of the world for protective or for curative porpesso-

What is the fitsiduental rensan inderlylag the receot employment, by the Apache, of the stane implemente ahawe on Phate $F_{\text {, }}$ is not givea alirenily by pithee tha
 nevmineless, that wo may dedace from the reand of those lavestlyatone and from erriain availahle informatipy soseevniug sount pioplas elcoely relaied to the Aprebte,

 Some of thome employinubth, certalaly so far ha the preséne tiand Is conceernel, woula appest to he doe, ou the one heuid, to an nammption of a alase relationslalp beswemn atrowe (sies gles pome other weupons) und lightrimg, and an the other to na wamption
 caneed to protens of otherwied not hemelicently wownts haman lelogk. The dats ht





 molt ingiements wero lined lo maploal opeationt hitconsin thay vere the ordigary









 of the world, it if fundier wrgonitg that the Apmolai magieal tate of flat triptementa

 the Apoche. It we assume that olther one or the other of the above auggeuted origing he tha tran one, we munt, If our previons dedaction lee cocredt, fams mavhods that at soane poriod, sulusequant to that of the orfinial magical employment of the Flinis, a firliaf ta the Hinh implements na intimately manpeissed with lightning hename grafted upon the original trelief, no that, instond of the magieal effoet heing moght through tha astiben of the flint implements as direes sgents, it oneng to hef suught through sha flint imploments primarily aid reprosentativas of the lightaing A belief in the counstion of flitut implements with lightrolng, a mmmon obe io Europes, may poneibly have been introdnced by the Spanlah Jeanlts sad Pranelacae Futioss, whor

[^41] Apsphe, ulthought Hoas miasions seem to bive loft lus small traees of their inflinance." Bat is was mach more probsbly introdaced-if if actitilly he ats improdnction, wad
 many Spanish superstitious, who vere tuken, fram time te tivit, ly this Apashe in
 atady of the frequeal associationt of finit finglementa with lightuhg, he worth quating, After stating thas only a low scatrond asoociations of that kind lise beet reported
 4 guggent that the shmoderetond bellef, in the ensea in quastion, with istrodueed hy











 for the follawiag ?-






 Soveral nsamplea of the pawara oftributed to the wood uf troes vitiol hai heen




 ${ }^{4}$ or to their anadins. Gunarally lines bualels ure of mentl slas." His'referenoe so
 taining tilu of Jightniag-atrook wood bue boen queted above: be zays (p. 353) tbat
 " nftncheil bs [a tertain] ope of theae cords ie placed opos the hend it vill at usice
 piene of luokskin esenlasing a arose formed of a Ilgbtulag-tiven pine-iwig. Finally,
 wers made ${ }^{H}$ from wood, generally ptrio or fir, which had been struok lig lighenlog

[^42]"on the monotnio sops, Sugh wosi to held in tha bighest estimation augeng them."
The Apadive hioll-roarts, ubed in raibernaking cervmonion, have sigang lines of the book, ropresonting "the liais of theip wind-gool, The bair is it sevent colours, and
 mind, of tho magie-wntaing bath-rourur with lighteriegs and of tho uscoriaciou of
 of the Navijo, u people elonely ralatel hoth tio blood and celture to tha Apache,




 " sler furm of tiat neake or lightaing." ${ }^{3}$
 avidenily, as shown hy the story of where it wos Juned, regeeteal by the Apache

 " Fote the finest pónder, sad then sidmlatered for whter to womsi duriug the time













[^43]${ }^{4}$ serpenk, with or witbont su arrow-palitod tongue, lecsuse its ionase through the
 Monater" of the Zunil, "the bero of hundreda of Iolkfore talus" is "furnishod with

"Inife of War, the Bow of the Skies (the Bain-bow), and the Arrow af Lighteing," $\uparrow$ The Zumil have medieine eords to which Hint impreacote wee attoehed, sad anch implements are fastened to many of their autud-shapoil fatishest $\%$ The Keresas,





Summing uy the nhove ovidases, we see shat the flm ingleaconts attached to
 lightaing for we have sean that woul saquetionably arsoulacel with loghtuling is

 think, rggaid an forther efileone in this dirsetion a fentire of the mandily ompongry attmoding the use of the vorid of Mig. If that He, the painting of algeng lioosconventional ropreseatations of the lightaing-oit the awner's oliectis, And the use of bertain of the eords, botee of them with lightnipgeriver wood fod othore of them with arrowhonda, primarily an protestions aguibit wounis from miasilue, wonld sum
 Zebt beliaf, with wurlike weaprongi

 Shat for mealiduemen rely grestly oin the aid af plean of oryotal in meeking last properig, and that a paitfotuobsen sold him that ly looking into a erfotal "lio contd

 Iir viow of the imparlest part which figbtalug appeas to play in conneetion with pase of the medicioe cords, and lic. viem of the foat that gnarse eryatala arn rugardet



 Sonshwest) washleadles ongtulogd nach a eryntal, mippoted to lie a fallea shis, which What kept in a tueleskin hag shaped like a thander-wind. White lu shat partioular case the unmesintinn io questiou souceivably busy have heen due to Eampena

[^44]infficuese" we may, if be hasman nis The besis the pointed form und the flusbling faces of the quurets erystal, and the effects of refruetion within the ergetal, well anabant for the postibility of ith prasence in America before the natruned of the Spaniarda. We shonhil farther oblaerye that wbile a mental masocintion of rock neystal with Tighinimg or at tonsi wilh the phander-bird, might cenceivally have acentred through an sampption of a relatiouship between that skon soil rain, the to the sfinilerity of the minernl to wuter naif to tha not infroquest inclasions of water witheo oryatals, a parely ridn-banis for tha naseciaion seems hardly snfficient


W, L, HILDEURGH,

## Obstuary.

## Keith.

Sir Edward Ohariee Stirling, O.M.a. F.R.s. By Apther Krith,
 Sonth Anecralling'the sity in which he wne horn In 18:8. Ho. wan an dinfingnished Fellow of tha Foynd Authropological Tontitute, having Imes Einuted an Eionorary Fellow in 1894. He wan bant byowe anoug Authropologisen an the author of Part IV of the Repart on the Wort of then Hera Scientifis Eipeditime in Cuntrwl
 is ar Ethnologist. He wan diois aheady it man of fortywix, and had won a ropnatinns as a Znologiat by tha iligeavary and demeription of that carious micie like marsipiad
 conduated a moneprel inte the matime of the Komale gonital orgain of tho Kangorob, For these disoovaises and renenrohen lie whe elenied for the Rogal Hoelaty in 1808-

 as a atodant nf Trjoiry Colloge, Combedigh bet alaer ly ther kiowlatige be gataed by



 sat ous he was quanilifod to ohesryon mantenatiaaly soul record falthfully the dhafnoters
 oxperiende sad wily hee of the late Mn. F.J. Gillen, Spoeisal Megiserate and SabProtoctor of Alvotigined at Aliou Sperign, batiden the venaly ansistanes of another Ifintingolahal Eollow of, the Institate, Sir Holdwin Spencor, of Melbourtio. Hence the repore whidh Sir F. C. Sterlang drew op on the retim of the Hors Expultion it a maturt tocrmeat proviling Anthropnlogetes with Arst-lanid biformuton reganding the phyalonl obneicters, oistoas, and enlture of Centril Ausiraline trihes.

As has fieen an oflan the rase in pasa trmek, Sle Edward Stizling sutecein the
 Soleitee at Cambridge be nusernd St, George's Irspifal, Londen is a nevient, and nitimately became in surgoon-boing olooted aseistant sargeon to Bt. George's Hospitul if 1875, eomlinigg thnt post, an was not mbommon at the period, with the leetareahlip on Plyaialogy to the nahool attachol to the Leapitai, and also tenehang oporative surgery to the students. In 1581 be was rowptod buels to his astive eity, Adelaide, yhere ho theor himsalf ioto bnilding op the medieal side of the University, and serving as sargeon to the Adolside Hospite, Haisnoe sed publie work gradually etppanlad to him mond and mores be beeame Dinector of the Museum, a member of

[^45]the Legislative Assenbly, sud fillad the elisir of Phasiology in the University, Theu in tha lrayday of hib llife he lronke into Zoology, and fieally, an wo hare jubt peets, Suished up a buny and peofitable lifa an an Antiropolagint:
A. KEITH.

## British East A.frica.

The "Mtepe" Dhau of the Bajun islands. By C. I. H. J, Wdekher.
 tha Bajus Islonils of the Past Atriom conat. The evenstroction of thuse vessels in singularly uerione, ne thay are linilh entitely withant the lue of sinils or fron. The fienbern (which are of mangrove troal ont in the swampe by the builders, mafiund)


 heing afterwards wedged firm with manll woodes peges, ngurwiAt The whole is
 hold the timbers in place. The timbera are algo sewn and tied on to the riba
 trom fiye to soven in number. The nppor ones, milisuditana, wye fred on the tap of the siope by netabes eut til their ende, and are also fastered with rops, and the Lower onas, mafundo, are let into the eider about a loot from tine top and are fised by sowing. The mast is tied to the second of third mediddikani to give it adetitional support,

Anothar fenture of these vessels is the use of a square matiog sall, nitanga, which in plaited from the Glore uf the whome pulm. The shit le attached at the
onp sand botion to gorids, foromalf, suat is hoisted by means of two nopes known as mkia," It hns two theata, the forwad wae culleil ngosht und then stern shapt eallet damn, which are artoobod to onch kide of ble sail. There is alon on rope fired the tho anih cullod misit,


 GEWTMA.
 whieh is pasaed through a boser it the boorepris had tiend to tha formard wfiurletaro, That sall alao lifer two mets of rould, kifaugma, and two furthet stity归per ysrd. There ise shen two otlies rupes fram Blis moser lreed to the uppev Garil, ealled marilo, which aerva to supguert slow youd.


 BEWIXG INB OAIFYKERG.
(0) silent (a) avel b) Bre miking
 whou the exill ls bolnterl.
 mbe git mbe. The abjene of thin is to preanse it smallor surfuee 30 fies tored of the






 OP ATT SOATNO ETEDEF,


the front of the sifwa, nalled firvhinh. The rudider, akikio, is of a sloping abopes and in funtaned th the storn pont hy menas of piogen of rojes cesllad sikene, maile

[^46]from openash filve tiel in three ar four places, and these take the pluee sof ordinary Tion rodder joints. There are abso two other mopes fixed to the ruider from the
 sclaobod to the radder by being dorkled into a loop on sach sides over a woolen peg driven' iato the rudider, and the other, which has no epecial aamo, it tied joto oue of the talas of the zinana, for the purpose of keoping she roudder from belog loat should the sikena get broker or eat white aniling.

A batsprit, balima, beving a slight upwand entre, is fabtened to the prow.*

 surpended from hreanith (wide Fig. 1),

 that solour. If tha sidarame were white, thit mesits chist the mape was on a
 if might meet. Tho nin of Whak aiduruanm, however, showed thas the miqpe wan
 Was nocepted. Tion gabersl methat of attieck was by branding the appesing vesant,



 natf let in to dia top of the rearf-bend. The peumant oonsisted of three plesen of




 white.

 to the kobl.

A shelier made of mangrove polen and shatchoil whith oosonas palen learent mekul, is uisually erental fo he after part of the veasel for which the oraw gin nleep and ens thalr food. (Tbla onn be senn in the acerminanying photogreph, Fig. Ei.)

Bosides the mat, the wifepe are alao equipped with ours, mokasia, whidh mre
 afe made of a this anagrove pole with an nblogg place of wood tied on to one end.
 loops of rope, Aisheriri, wbich are tied an to the opper umbere,

Moagrove poles, oalled pondo, are also nevel to pole an wetepe along fin shallow water whan the sall has liesu prematarely loverel.

Two anehors, kanga, are uandly oaried, whith are flxed to the bow pud stery tespectivaly. These vompriso the only pieces of frou to the whole of the ransal.

Tha origio of she retepe is of interest. Before the Purtaguene bams to thiz noast (that in over 400 yeass agt ) antober of people called Wradiba by the local ibhahitunts settled along the Bajun suari. These peopla are sapposed to have come frome the Laecadive Tylands, off the soutb-west geast of Indib.

It sypasts shat while on a royage to sone destination soknown, the Wadiba ressels wam blown out of lhnir course to the East Afriean const, sod finnlly ware

[^47]hroken uy on the roake nent the island of Kiwaya, pbout 35 milen yorth of Lambs. Tbe Bajar tader these Widibs, avi evemanlly futer-marvied with them, wnd their dessendante thay stil! tee reangnised sumeng the Bajus. Aftor the Wedila had gettled

 hownver, were huils at sobobit timbers. Provious to thls the Bajm had mo renseld expept -lug-ont eaines.

Io is is very protey shat to see tão or three of the qqualnt-laoking mítepe, nürlan from Lamu Baybaur on an ontwned yoyage, aud the siffect is heigbteited by the suilond giviog vent to their exsolernome of piliter lyy liearing loudly on a native drym, ngoma.

Tho mi/gne nee wow gacorsilly uned *For befingige to lames the congesive pulat, bariti, but by the Bajou from the swamper tiat alound in the Lamin

 एँER5. Arelipelagur Thesa havil are ont
 for bullating gacpange by the noteves.

The mitope stometimen miske a vayge as far as Mombais, lut they are not vary sulesble fob empryleg garolesediee ony great datance owiog to thair lenky conditioni, It le, lo faek, the pmotine of the sallors be bate the viasol in tura llariog the antire vayume, to meh on axtont dogh sho water bome In thraggh


 if the liark with a raugh

 kiod of pestie asid natar. Rinw.

An wique has to be recewn and supplided with frodi poge avaty yoar. Their life varies from three to dour yeert, uthor which thag une asolesh we flug esabest be pobants

The approshante mensurementr of atl avernge megie se as followe: Leugth (top mocsirement) 60 feet, length of kool 35 toet, wideh of beam is feel, depth of buld fitent 6 inches From this fi will be sech that the beam in brand in coorpstieon with the keel. The greas discrepancy hintwern then leneth of thr keel and that of tbe ton measurenent of these vessels

[^48]is due. to the long pointed prour and storn, The namsa of the vurions pats of The atepe need shove aro the looul Kiswshili, of Kl-Bajumi rames.

I phe lidebted to the courtery of Mr. M. W. H. Beech, M.A., F, I. A.I., for the
 an mutepes.
C. J. W, LYDEKKER.

## Greenland

An Eskime Week-Caiondar. \#y H. Balfoter, M.d.
Aansug z wumber of speolineser fism tha Eakimo of Grusninad recearly 47 prosonted to the Plit Rivest Mosenon by Mr. Loili C, G. Clarke, is oqe which


 It fach thiak, very dark lariwe anil a goai deni weethereal, baving all


 three lower labies ore parforatal hear thute nateree with a hale whilel
 pmehrations, making teveit parloratoni shrongh the five Johen. The sondiforse termital is duflied 'longitailmilly to a dopth of If lask, and a vary smaif truaswors bele comminaieates with the

 drilinge, ar the hale in zasghly aliptent A very mosil bolo paome complyisly through the atere tlose to tair enit. One awthest of the rod is
 ceaves and than ather plaion af sees in the seation. The
 i. $69^{\circ}-70^{5} \mathrm{~N}^{5}$, thongb I in not know by whons,

Nov, linflagif susied to the literuture for sulgghtement on if the fruesiou of thlk peoilar objsot. I eventisily tosmil a solations fir W. Thaibitere'n pupes nas the Amususenlic Eakline
 Fig. 302). The apuaimen whiols be fogres, wed whels I reproduse in Fig. 9. Is of anood noil is monsh lumger then tho Disko
 aren essentinlly the fatio and the fonetion of the oas mans low thins

 parfornted at the sentre. A bone peg, alsuped Nike a viglis peg. in attachend to the lower end of the silek by mans of a falrly long soew
 " the weven dayy qf the meoks." The pbjpet if, in faot, a week calendan enabling the naer to keep connt of tho days of the reak and to kuow when is is the Sablentio. At Thaibitser suggents, that ndoption by the Esikime of the wonk and tie division futo severn daye mast lanve hean the resple of coatast with the resilent Moravien missionaries is the south of Greanlani. Thence the practice of herplag recoril of the prasuge of thet week-daya munt bave spread mp tha weat const as far as, ur poasibly beyouil, Dieko. It would appear that the use of the week-enlendnt spread later to the Einst Greenlsod coant, the example deaseribed by Thnllitact Era, 2, haviag bees obtaizel from the Eakimo of Ammasealik (or Abgrongalik),
 unill comparntively rocindly, and soch ealenitary as resched them sunst origianally fuve

 (Meddelelser ou Groalland, X, 186H, p. 141, Iootnote), insimaten that the difision of the wask was not known on the east roast, He veserfbes hor one of she adendark,
 it peg condid ba biosk, and whe given to the tiat thath lative, fo that loe might daring the whier, when lid what uat off form gutade gootach, lioow when the Sablath enme romul, Holm appeard to doabe the netrisability of beludiog the eavesing extibtiest lit the Ethogmphianl Mrsenan at Coquealagen umong lhe ibjesta betonging
 gousht of wert.

The Dinke sperimen (5)g, 1) in elearly ene of the went doast galenders.

 sluew thened arr mianjug but the suall hols at the fower oud was uvidenty for athabliut the pogs. The longitidimal bele dedlent it the upper heareabupend termhast pany have tean intemded for the fasertion of the pog when "off daty." I bave
 should has glad ta hear of uny ather ppeofman.

IIENEY BALFOUR.

## REVIEWS.

India.
Murshall.
A Guide to Somehte By Ste J. Marrhall, 151. Caloutho 1918.

 neconit mill tim fussil In the Ropank of' the AreAandogloat Surney af India for
 at the exasvatians and of the remains tremght ne light. It is numioiont to remark
 oppartinity to refor to the roports to obtain in olsar ldet of theas maguiftent momumenta nad of the serilptoret with whiols thuy aie demonefed, heth 'ilase whith bave loog been known and thone whiak lisve revertly hoan broinght to Lghes. Sii dolam Marshall oniat be cougratulated on the groat pugrose made lo thas waik, oue
 plamsant to rend of tha activa and tharal auppors givan to this wark by Her Highasen the Bogam of Bhopil.
M. I. D.

## Ethnography,

The Promesses of Hixdory, By F', J. Teggart. Thala and Oxford Preases. Bre Bd. net.

Thite is at effort to extimites mellonle of study of ${ }^{\text {is }}$ How man everywhere buat
 asd the appreaintion of fdea-syitems and the atudy of their evolntion ta urged. The author aniortunately atill rifgos that we muat take man as roatil for grauted, that we cabnot utilisg raes-facts, and ono ent oniy rogres that the vagariei of writan who have boos intereated meroly is tho supposed supariority or laferiacity of varioun supposed races lisve diose so mich to hinder the progreas of the stuif of race. Bat it is a step fu adrance to fibil in thits book a strong plea that histary is not initary; $\overline{\text { we }}$ ore not all trying to climir the samo ledder. A farther nivaroe Would be to Herbertson'e position that tbe wholes whital are grester than the [ 23, ]
indiridial are largely gengraphial in Fonndation Meanwhile a wise Warning is given to studentes of bumasity not to fey two mueh to expinin the past hy the presont : Lyoll's matiod, valid in a lagge measure in geology, is inapplieable becariso the presert enviromment of a people may be mudh altered by bumati offart in the patc Morgover, who will not hounds to the vagarios of expreasion of the haman (vIIF

The nuthor urges atady of Exnusia na a anib wilh Ita geat interior aren gador neitisal sonditions of Iff and iar varioun projeotions, Chlons Indin, Europe, in which pecssure has helpail to mblatitute tarritarial fur kioship gruaplage- This be mingobial. bat it is only one sapeet of the queston, the yerione peojections stand ont hawards the paim, nud with at grood mixiare of ralu and saushles onltivation in engonerged, though very probably ite difficalties wonld not liave heen tioed hail there boaks na ргеавйо,

The filens of "progreas" In thiy bank are interesting. Wrek ponturen aro elsimed to he powerfial agents, rolnasing the miods of paoplan or of their Jaudura from


 othat than war, whleh ponit rather a symptorn of tha lirenk-down of an ald acheme than A. vilandia lacter if progrens ; the growih cail hrukiog of an slmones mey in the seid lead to a rure, but wa nesil not sall the abecoan a factar of the pure-
H. J. F.

## Buddhist Art.

Foucher.
 Asias Arelasology. By A. Founlier, of the Ubiverility of Paria, netiaed 90 by the atithor, fad trinalated by Ls A. Thomie and E, W. Thorens, with it
 Price 31s, 6dinel.
 M. A. Foucher, has been made by Mors L. A, Thouna and bee hasboud, the
 It ia illatrasted lig a fine toriek of photogrnphie plates. Thie leototes are the work of s mpotar of ibe subject, who enmbinas ride lanzoing with that grase of siyle nest
 wany questions raiend in thene lectares, the first, loaling with the leghaninge of

 or Bodchan, in the notrae of tha land earihly exintenee? The first aygenention, that the absient agboct had either not danived or had nat been sble to figure the Blessed One, In rightly dismined. Aftur a fatl dibeussing of the quation, M. Founber offers the followigg explenation t-
"The liatory of the anoient régime ia Buddbist art pirior to the Gandbuirinia fevolutiou mayiln fots, be stomed up bomewhat as followe: We have every ranuor to suppose fland there Was, fisit, lrom the fifth centiry oawhris, tocat produetion at the four great ebctred of pilgriaseges and donveyauce into the interior of India, of rude delineatious copying the 'sacted vestiges' actaslly atill visible above groand in the sites of the tuiracles. It was theae naturally sopeopleil tablesux which, thaoks to time and distance, sadeal by beling regorded as syatematie representutions of the four prizigipal eplsodes lu the fife of the Blessed Ones, and whieh. Joined th some routioe varistions compused in pocordasce with the same formala, werved, before as well as after Apakn (riddle of the third centary b.c.) for the decorntion of rellgious foandations; finally, on the tronuments of the nooond geaitury (atill
before oer era) we remark alranily tentation toweds fresiom from the tyraung of the sacient enetoms by regourde to subjecta previeas or subsequent to the Lest existence of Bulibine Howavec, the selisoof of the northenemes on the peena. By roason of the wery fact that it has bees nlanoss ontiraly ramoved Froms thase traditional
 those of the ascient sebocal. Now, the comelanians of an extensive stady which we liswe long dealicated to tha Groec-Budhist bee-relieft, seem to have cmispired in

 luter than the eycle of the Parimiryồ, ne alao a marked alminatiou in the sumber uS Jitakas ; in the second plase, thare Is in tudefialto matiplication of episocien bormved from the yogth or the tenehigg eareer of the master, whose corparaal
 tharg is ans axtroms rarity of symbolinal repremantionas In asy asan-and this io


Coutidenaloyis of space preyant, the dassission of the many latereotiog quastione raised is the sehenquent leetarea, " Than Reprosentations of the 'Jitaks,' en the Hes-1tollefu of Barbut," "The Enasaru Gate of the Sinehir 8topa," "a The Greel Oelgie of the Image of Ruddis," The Trialary Puir in Gant and la Tudis," "The
 "The Buddhin Madanne. ${ }^{*}$

Tibin vaicatile work aill bo indipenmilio to sll ntudente of Buddibit art.
W. CBOOKE.

## Etibography,

A)cera Matarmura.

Contribettons to the Eranegrophy of Mievomstiq By Akers Matsumarn.
 Vel. XL)

 therly loot ber interast in theai. Early in 1015 thas Japmenn Goremment despatabod Es parfy of seientints to the lelsude, sed the autbor was manggel thenst "milerel io "undersage anthropalegient stodies." It would appenr shat-in Ania-an bilanit anvironenent ib not uectasarily fatal to ofloial lateroet in antbropalogry

The paper is in them msies tenhuologiesi, and denie shlefly with cotloetione made
 Thoun wis, therefors, molatively litaln sppartanity of studyiog the natirne and thoir woye, but the suthor lise eilarget the enape of the papor by bif ammeroup rofomanos is other writurs on Micropesla sod then Panific genarally. A sttikiog faatirfe it the 36 plates, with thenir grood reprodictions of photograptes. The text bleo poncsiys


Allowing lor the limizations imposed by the condiflons of the voyage, the praper provides a vary intorosting nad lisefal suthmary of the efhnography of Morounsia, asd the sathor maty be sobgratalatad on living under in Governuient that realiong the importanne of anthitopology.
H. S. H

## ANTHROPOLOGICAL NOTES.

## A Plece of Oarved Ohalk from Suffolk.

The Editor of Mart has 3 neceived from Mr. Reid Moit is 3trong protent 32 against Slr Heary Howordh's criticism of his paper (Mas, 1919, 10). "Mr, Beid Moirts males montsution is, that while he agreea that the objeet pablished by him is
the gest of one of the efinmbors of an ammonito, he chaime that this fonst bat beent iatentionally moilifed by the hand of man. Mr. Reid Motr is preparing is furthar eommanlention on the sabject, and meanwlitit this mote is inserted to make clear lide posaition in the matter.

## A Scheme for Organised Research.

The following scheas hat been adopted by the Counell of the Royal 03 Aathropologival Inatitate :-
(1) Whan it is deaired to uidertako any rpepife orgunised research, or to form if atalogue of anthropologionl dista, the Conneil shall appoisi for thie pirpose, from among tha Fellowe of the Inatitute, a Revenrela Coanisitten, and at she sume time pmoinain the ehairman bud mserntary' of suels coumitues; the Cownd shall alsr desine the terms of reference abil the seople of thie poumitiee work
 of the Insulute or not
 af than Coniell, 10 vary ise title sad the acopa of is work.
 and fliog the data, and shall ptsseat to the Douneil a rapors embodylag tha sames, whileb sball be printend io Mas t ad many ooploin as the dommite may jequire sbell


 univaraify and tratalug mellagas, resondary selinoth and elementary toachers, in woll


 of the patalogne formed lyy his dommitenn.




 sbalt he acoestble to the Knllown ot all timne that the roems are opea for (eneral uge
(9) Ench Revaroh Committen sland rapert sonablly to the Conaell

Duber the provislans of the above scleme it wat ranotved by the Cobuell to
 masumate and alited etmoteres.

##  Ixstite

Introductary Sheteb of the Bante Languaget. By Alioe Wermer. 7h $\times$ 可. 341 pp. Kogan Panl, Treach, Tribiner and Oo., Lud. (The Pholishers.)

Eine Geogrophisafe und Ethiegnaphisede Analyte der Materiellen Kivtiws Zweier Indimserstamme in al Gran Chaco ( $\$$ 出d Anecrika). By Ifland Nordenskiali. $91 \times 54.304$ pp. 44 Maps and 69 Illatrations. Erlmadera Bolitrgekeri, A.B., Góteborg. (The Anhicit.)

Det Tropiska Smofjathete Todiawer. By Gustaf Bolinder, $94 \times 64.240 \mathrm{pp}$. Filuntrated. Albert Bouniera Porlug, Stookholsi. (The Authne.)



## ORIGINAL ARTIOLTS.

## East Afrion: Canoes, With Plate G. <br> Hornell. The Affinities of Enst Afrioan Outrigerer Oanoes By James 55

In the paper by Dr. A. C. Haddoa on Eabt Afriean Oetrigger Cnaces, which appeared In Mas, 1919, 29, he coneludea by tavitigg those able to addince additional evidences upan Indouealan ouirgger desigu to carry forther the enquiry into the origin of the APrichn type. A reoest axtensive tom throagh Tefonesin, fovoted fu The mails to os stisly of the heat dexigns of that ragion, has givan me sobelderable intimacy with many of the variatione in usa thure. Tafortamiately I wia able to do litile in regurd to the namenclature of the parts, and what fucts I have bo adduce are limited almost entiraly to siruetaral details.

On reuding the paper referred to te appatared at oube elear tbat four diathact vafintine of natrigger penar on the Afrian mans, sharneterisol mainly by mfinor differencen in the joint plaee or atevehion eouseetige the fleat with the beom.

In the first of theso, the Mombsse sypa, as it may be aallad, af abown by Dr. Haddon's photographis, the steagbion in long, thender, sed extramety ohllqua, sinnting downmanls and oufwerds to lie inaertion is a hole throngh the flosi. In eostinantion of It shlitiae panitioe benenth the hoom. bie upper end is narried inwarda and upronds to an almant equal lengel; to malatale it the bestre in pmaition

an obligue hahigg negiren the mulerged heed of tho stanchion to then body if fout boom.

The gecond or Zanelber variety of the ithelehion, fiecondlog to the figure given by H. Warigiton Smyth (Mant and Snil, 190f, p. 815), is a nborinned, ntumpy form of tbe Mombasa denlgo. Aa this appobse from the legeod appeuded to ba the fitiog of a bum-boat, we may ognelude that it is a coaree ind reugh type of attachoment, is which mase me may eoonider it to the a degenerath variety of thin Mumhass type. An in the latear, the stanchios is obliquely plaoed $\%$ the upper endi, boing whors, projecs litle nhove the boom, to which the leed oppeste to be lakhed, cloce down. As in the Momlisne design, the ditsal end paseas flarongls the Hont,

In the third, or Melindi variety, whinh hailn frem the Comoro Islande, the atanelion "in readersd raore seeure by bwo "tanees" or L-shaped pieces of " $n$ rood asiled to the mgun (atavebion) and the upper surfabe of the flost; this is " the geaeral aftachmant here" (at Melindi). It le not stated whefher the stanobloe is vertionl or obligue ; I presume it is the lattar, as the font in denarlbed se fentived at an angle to the wabor-

The fourth form of standhian is a stono gundrangular vertioal pegy the lower evid passed through the flogh, the whole secored by in careful system of lashing. The stanghion being vertioal, the boom in brought dirently under the ond of the
booms and ridea harizontal in the whter, instend of being canteil liawards an in the Mombas, Zansibur, whel Melindi formas

In all of these varietias the boom pasees through the alhank of the atanchion; nowbere in the Indo-Pacisic regito emegpt is Jama doen a similer method previli; nermatly the stapobion pnseer vertically blorough the boom (In Geelviak Bay, New Goinea) or else If is bsoleg to its side (Inslonesis nod many parts of Papansia and Polyneale). On the nordh enast of milille Jave, in a loeslity whem the vutrolgener lins otherybine thappearel, there lingers, however, a sumill and degenernte type of outrigger of vary primitive affinitien, Unlike all she ontrigere of nact Java, Multurn, and the auljosing iglands, this hat but a single sotelgger and one boowr only remains, (Fig. 1). Apart from lem dngenerney, the polat of interant to of is that tha orine end of the single loom, nmally a hamboo, paesop through a bole in the opper und
 extremity of a long baviee tloak. The stakablas it wide and thin, made from a thoris lougth of plank, Thas appas and is romded, the lowor part sumewhat narrowed th pertile it to be jammed inth a slot paating througt the flozt. No laaling is bagalty employed is woodan key throngh the honm ba the outer alde of the stanehion presebite the perts from comigg adrite (Fig. 2)


Pracis
Fib, s.
Thia type of fioat sttsochment eames so olose to tha Afrions formil that wio may nusimic shat the lotter are mare latimbtely relatad to thie than to any oibep of the Indoueniee dabigus The dilficulity that the Javin type is do Eingle ontrigger dinappeare in face of the facte that (a) thie in obviously * dogenerate desigo-the last llogering remsaat of the tgpe ia a locality whers ntheratien the entrigger patiers has lang been dacarded in faveay of propesly bulls boais boik for flablag sad
 overwhere oles to Iudoosals, incluling the east of Javs itsell. I foel sathalied that the Afriean designe are readificstions of a Javanese design fatrodnced into Madagascar at some remote period prior to the desadetioe of tbe latter. The question however, femains as to whether the typa of verifoal atasebion of that of the ohligue one whs the one curcent at the tirme of ontriggar iztroduotion to the African region, As three out of the fotir African rarietien posass obligne stascaioait, we may fnirly conelaite that the obiliqus is the typical Eorm. Indeed, the style of attanhing the flonts vertienily bemeath thes ands of the boums nasy ba eonsidursel a degenerative featire, as thit is conined among dotble outriggars almost entitsly to the oorrupt Javan desiga and to the erude maltiple-baom potriggers of Geelvink Bay.

Thking the Monkasm variety an naarest to the original type an introdnced,「新1]
thore [s nothing peonisely almillar anywhere in Indonesin, bat if win spmblise oertaln of Slie poonliar features of two types very uommon there with the perforated stanchlon of the one daseribed from midde Java, we get ese spproximation axtremely ulose. The fortaer are:-
(a) the obligne-stanchion type, and
(b) the Bnli type.

The former is enmmon in Lombok, thrmughont the Calebes and Moluswas, and in Ceram, Bari, and the Sule ant Obi Islande; is in alno to be seen wall sleqaloped at Enongg and Saonek, is North-west Ney Gulaes. This is whithot question she meest widely distributed type in Indonenia; neveral raristionn exish, tat sypieally
[t noastria of a


 -ahaped obllqualy plaasi stanchloa;
the otbow and shori ien lia ahovg tho boom to which tlae Etanchlon is lashad in twa places sa *hews In Fig. S. In some oasue the apper imd in bont Inwarde from




Fis. 4.


 tbe rodor side of the lower exiremiley f lo po case if the manobion Ineerted Into the flones.
 izpe to bave evolyed fudependantly frow oue whern the outrigger boome, being eurved, were atisched direetly to the floats the latter method if suitable for amath sauoen rith itule freebowd, but when the sixa hecame aniarged and wiah strakes wera added, the booms bad to be so deoply curred at enoh ond in onder to be athaclead to flosis atuated at weter lovel, that froubla wes oxperienced in obtaining suitabla timbeg. To mest dibiz diffoulty a soparnte eiurved elbow wis splieed to ench ead of the atraight pole uned ase a boom 1 the farthar end of the ourved joint was mado peg-shapod, and fitied through is hole pussing obliquely tirough the baieboo aeed at the float (Fig. 4).

The Mombasa design sppears to belong ebeanklly to the frat-nsmed type, modibed by combination with the arehaio mothod of staneblon insertlon seet in the Norsh Java desigu. As we hove the sonnecting plece pegged linte the flost, hoth in fbe Javan and Ball types, soil an thin is the metbod almost aniversally followed is Polynetia and Papuasto, we may infor sust pagging of the hoom oonneoting pieon to tha flost is a very primitive sontrivanee; to lash the end of the conneoticg piose to the boom reprosents a subsequent Legroremant; pegging is a lest necure method of attedment that laahing. It follows, therefore, that the preseet Atrican patierna
represont an archaie Indozegian type belonging to a date prior to the ndoption of laching as a meane of seesiring the float to the comientieg piece. Bet the Born Baciur sealptures In Jove, dedigg from ther seventh or elghth centarias of oitr ern, furniah representations of outrigger shiga with lesbed-an beoms, beace the artival of the pagged denign In the Cusoros and in Afrion prescmably muat long satedata Has poriod.

Regardigg the Hngeistic side of the nobjoat, sevenal of tho torms guoted by Mr. H. R. Montganery bppear to be of Dravidian afigia. The use of the wand

 onvigger esaon if providal with a rudder, henee the sine of Indian (Dravidian) termef for the two worde sumed proves that the puse of rudder sed allar In Atriouif ustriggore is a somparatively modirn lanovation eopled from Indian modets.

No Indian outrigger in any wny resemblat the Afriani dasign; all Inaline and
 to the flants. In vibt of the sthtement in Dr. Haddon't popir that the Melindi sutriggori are imparied frem the Comara Isinala, if in bow important to sseertats
 porter anmed.

The swo phoiographe (Plate G) aceompuylige thin note represent rempontyaly-
Fio. A.-A largo huibeup abirigger easue lielouging to Lombok. Bomes with curved elbow pleone spllonid and persel an: the lower ends are lanerted obliquelf through the bambou finats

 two phaces. The T-akoped sruthen aro uted to ourry polot find sparie (Phetos by J. Hornöl.)

The line lifurer in text ant an followe (1) Diagrnamade riew from shove of

(2) Metbod of athachmint of flons to hoom amplogeil in the name Javaness dasigri. (Afier Yas Kisnpana.)
(8) Elbow form of ntwiohlon attachment in a large fishing outriggor abiber Mennde, N. Celelins.
(4) Bplliged-on earved thowpiene oonaecting the Btralght boom of a Ball oulefgeger with the flont. (Bolelang, Ball)
 \&, joint vonoteliag float and bonm.
J. HORNELL

## Africa: Arohmology.

In 1915 Resldent Magialrite Jansen, of Viotoria Weet, Cnye of Grod Hope, sens to tha British Mosesum o serias of worked stovee of peruliat oharactec, hus beform making $=$ formal presentation of thas allowed mes to lofing thom to the notioe of this Inatitates. The delay cen be ansily explainod, sad the preatat opportnaity his tiees tnken to include two other Afriona finds with eotblug in common excepit their valau ar matarial for is study of the Stope Age in Africa.

A letar ancomprovylgg the consigument gires ample details of tha disonvery and a skesch-plan of the site here reprodsend (Pig. 1). Thought Ido not aidopt the deantiptive terms need lin the lettar, the proposed divialon into two fyper in mote than fustified, if oue may Juige of the whole by the epeeimena sent to Eugland. Both typea (which I propoes to speak of na hand-fxees asd tortolec-cozes) are plentifut
in the distriet, but the Intter ace found obly in certain spats; and the hood-axea ocear either in conjumation with the cores or withont them,

Vietoria West (to quote fromi the letior) is the ehief town of the magistarial distriet of that uame, and lies In the heart of the groat Korroo, in a naroow valley batween two hills, Where the hille uppronch each otber is is gap (Duteh poort) slunat 100 yarin wide that there was mo brank in prablatorio tmee, for trial pira lave shown that the geologimal dyke wha ance continuoas. The bllls are composed of Besufort alvales novered by a delerito cay which nloper down townds the poert beyond which was a prehistorie lake of about 150 square milles. This it proved by a sypical lakerlepotit phout 24 fans thick, In whills fuasll reptiliun remaías have bean feand. It neems prohable that the lake orepfowed through the poord, whieh wua the loweat puan arailable. Thle outlet mabl linva necomandateil a eonsiderable river, whiah gradally ware down the delerite dyke to the level where it han now bees livated, about $t 0$ teat below the eurfang of the lakedoposts.

From the paort as is epotre, tbe bille tread aorth-0an! and pouth-aeph, Erulually drawiog apart about a mile and then taralag namth and soeth peapoesively. The town of Vletoris Weat liea in the valley nest of the peorl, and the river, which


formurly flowed at the loot of the southeent hitt on femiog frois the lake, anw ilkirte the foot of the opposite tifl. Ovee the whole vallay the rivor liss depodted a tonglamerate of boulders sot In lifiee cement about 12 foil think, and along ita
 reaehing its original level. The eonglomerate in eothposed of seven of fight lindn of rouk but only two are not fosnd on the bill-sides, dolerite and a sedimentary rock whlch eceurs in bandr in the shalee. The othors lave net been treed to their original beds.

Tortoisucoares have been found on the bank of tha anviont river to the eoasthbast, the leat coming to lighe lo plis aunte ly the R.M. in the coarse of his inventigations. The conglomerate here to eovered by alluvium to the depth of 12 fent, and severnd were found at this depth lying on the couglomerate, indienting that man lived on the conglomernte level before the allorium was deposited, Severni
 allavium las been washed awny, Abowt foriy yeste wo a grent clonidburst ocencrer sbove the poort, and the flood not only washed away the alluvium bat cos through the conglomerata mider the northern hill-side. Prertoasly the river-bed had not been deßhed, nenl itn prasent courae whe covered with dense reed.

Having found mo tortpiss-oores bat only hand-axas in this eonglomernte where that la exposed, the magistrate draws the conelusion that the limplements are later than fles eorsi, haying prosumably got into the conglomarate since the allavlem was romoved; bat I am inolined to draw the opposite conchaion. Apart from the type sequeson observed elsewhere, it ansy be arguod that the hand-axes Were lacorporated in the conglomeraie before the alluritum was lald upon it 12 feat thtelc, and that tha renoval of the allnvium is some places has only laid bres an tmplemeat-benytug atratum that auvars tha antire valleg. Thia polat eould obvioualy be proved by an extunglye remornl of tbe sllaviam atill fu plaee.

Dae south of the poart specimens of bobl typed have heen found bat what wha granumably the shorn of the letee, but not a veatge of an implamani has heen deteoted on the sarih side, ned an timplement of any kiod has beng tonnd aloug itio foot of the neribeans hill whers the river rew flows. On the gant fade of the north-iaas hill, however, hand-axen have bean plahed up, but the oand alope of the sontibenast hill has produeed bolh kinds in pleaty, iaclading sll the wasthared specimana la the onllootions. Owing is the couffgerntion of the gromad thers impleaneinis aoald not be huried to nay dopit. There is no allovimos and tha fpeoinume are fosnd lying ea the alaln.
 15,20 , sad ts miline dinteah. The last site fieléed eoper of a nomowhat difforent typa but she lmplementh were ulinilar to thase of Vlotoris West. Lgilianita tmpletatent of Challea iype sre mentinned from Vosburg, where they becur io a llan of eemect songlomennte wophed through dy a nukll river. A vary large deposit of torioinesorns anme to light at Zun Kop, with louger polust and ahallower enncavitioy than at Vintoris West + alac a romanchable serien sesombling s horde'f hoot, not found'on any of the nithar sites. Cares from Molien Wold anr very rough asd plted, short nad not bonked at then peint nud alonet as broad as long. Sach
 ceaset fall to slirow light on whe probistorla popuintion of Soath Africe.

The band-sxen rasge from 6 loalas in 2f theles la leagib and are roughty flaked all over, the facer bring equally eonvex and the bett fairly slinep. The sides are even and nat swisted, with a rogular taper to the protnt (Fig. 7). The feet Suropenin parnital is fliat in the type rith two conyox fuens from La Misoques Dordogns, anigued to the transition froms St. Achoul to Le Monstier.

The tertoisenorg in heat luown in Horope from Northfect, in Keas, ind Montilers thear Amiens," noll fanten frow tha period of Le Monatier, being prabobly aondinod to that pariod. The sore wan prephead rith the objeet of getting ab avato Blak-implement frome the rppar fice by a find blow on the funsted bati. Tbis if suecessfat wat a inpecial ense of the Levalioin flake. Thosa from Viatorin Went ara rathar pointed at one aed, nsil are génerally atruek fore the lett wige genar the peint, as Pig. 3 ; in a fow easer the detachlog blow was deliverod on the rigit of the point, 的 Fig. 4.

Of the aeries now presontad to the Britah Maseum the largeat tortoisn-tiore
 and asastruek, is 3 inches scruss. Those illuatrated are of nverage dimemiona
 of prepored cores from whioh the fiake implement has not been untached.

T'be avilable svidemen atigegente that this technique was nommbe to the portb, totith, and asat of Africa, whatever the period to mbichì it in to be assigaed. Thus Mr. Heary Balfour found a number of small tortoine-eores at Vietaris Falle, on tha

[^49]Zambesi," and especintly one flae flaka-implement that corresponds exactly to those struck from tortoise-cores in Earpje, Abont 600 miles dus south trsees of the same peenliar method have bena discovered and slready recorded by the Institnte.

Spectmens collected by Major E. B, Colline, D.S.O., at Meyerton, is the Transvaul, 9 miles aorth of Varomiging, Ineladed une of spotted atone, 4.7 ia, $\times 3.5 \mathrm{ibn}$ reaembling a manall tortoise-core. llke thote deseribat from Nortitieet, in Kens, and Montiiren-les-Amians, in the Somme Valley. One face is oonizal sad the other sonvex, the lattor perhasp intended for the upper face of a fake-tmplement, to be detnelagd by a blow at the butb It in warth noting that no aposimane referable to the Noolithia pariod were found at Meyerton. 1
A. Aake-implement of this anme Northfloet type from Somaligad is to the colleotion of Mr. Buscall Fox, who recnolly presented to the Britiah Mnseim of flow

172. I-Doc.-
 VKOLOML THESE,

 (b) rucroaita wav.

 (1) Tloroma whax.

 AYD stin vtews (i).
exmaple of the torteive-bore from Egypt (Fig. 5), and thery are saveral others in De. Starge's musprm, To fudge from the MInatration, the Northflent fadustey extanded into Syrin, where in tortoine-sare has bean found as Beyrett $\ddagger$

Thaugh flint or chert implernents have besu colleuted in abundance from Egyph, Tunis, Aigeris, Mourstania, and the fringes of the Bebart, I cau find no nceount of each diseoveries in the Siwn onais, and only ose poor specimen, se poorly illastrated in the naxt large oasis to the soutli-west, known as Kairn. 5 . Captain Crinnlugton will some day give thia series the poblicity it detarves, bat while he is as Salonika

[^50]I an pericleged 20 Inclade a sketoh of it to make un an Africum progremme for thie, meating of 99th Oetcher, 1918.

A survey of North Affiest finds in geveral ie fortunately not roguited on the presest osengias, but it may belp fotore lnyestigators to know thas as short billion griply wes probliahed in L'Anderopologie, Vol, XVIII (1907), 548, nad sabsegquent paperi on the subject may be found in the-Comple-readn of the Prehistarie Cangress at Lous-le-Sauniar in 1913.

I am Indebteil to Captain Cunrington lor the following geographical detaila of a distries nos likely to be visited by Earapeane after the wat, Siwh, ar the osis of Jupiter Ammen, liee in the Libyan Deseert, vame 160 miles from the Mediterracune anil 300 from the Nile. It land been reached by au onoasional explorer before the recent military oesopation, which gave the captain, durlag a stay of 11 monihs, an opportanity to nxplewf the immediate neighbourhood and to make longer extarsloan 250 millos esses and wesh, sod ourchward as har as the ouast.

This part of the desent coseigis of s limeetona platens tarminating on the sonth in an bust-mad-weat encesponent rising 500 feet sbove the soth, and descending 100
 and thane vaty fram $\Delta$ to $t 0$ willos acrons, beligg spproached trom the platans by a sumber of nwrines, which are out threagh tha limestone lata the ssedstona leelow.
 and 10 oulles deep, the usorrpment overlookiag the Blwa oanin baving boen eat up by luflows $200-200$ fant halew the ghatian level. Theas hollown have a floor of groy ulloplim, conatusting "mind-pras" thas may be $\ddagger$ is 1 mils is dimeneter.



 ooaur exoept wishlu a few yarde of hee flrephagh, Bat adit it woald be obewiso to trgard this vobizeotion an assenLal.

Theno pass are all whoble iwo dayd march of wavary and many ot them mppear to base lued at seme tian a dertalu anomost of zaugh fogotationg growiog in tham.
 neigblaurbond, lacheling meeling-platef, meellag-atòner, and quami iluthg apparensly From the Dynnatio period of Eeypt,

Oo the high platoes io v different type of mbd-pand parging from 50 yardit to 5 milen is digmeter. These ocour all over the desert betwoen Siwn and the conel, sad most of tham mapport, at lenst in eloter, a considerpale mmonnt of onmel tornb. The bakod mul of which ther are omeponed may bo of groat Copth. A pit of 26 feet whe anak without reaching bnttom, nod the masisial wha fonnd to be aniforis in quatily, with no stomer or other debris.

Theae bigh-level pans are not spepsarily asprounded by fille or confined withia steep banlif; sad the worked flints ocenr on or nent tha elreanferenee, sot sill ovar the surfaon os on the grey moi-pans at the lower level. On the plateat aitce undoabted poleolithe were taroly met with, the ordinayy form being serow-beads, knires, and mall serapers; and these are pot found in any quantly exespt within 12 milea of an ossis, on Whioh the inbabitsois depended for water:

Some of the manler pabe pear the onair produced mont of their arrow-heads at the anoth-enstarn ongle; and the eaptein soggesta that the meolithid settlars hunted on the high gromed with bow and arrow, and campod oa and roumd themod-pans in the bollowis of the bills, which had obaupasts for maigy generations before and after the later Stone Age. The remuint are hase very mixed, and working-situn of "flactaries" are common lo the neighbourbood, the locae eurface harbouring. needies, pygroy flints,
boring tools, noul other definite types. These grey puid-pans He Istwean we-level and 300 feet above it, and it is worthy of note that ao fint implemeats wore focnd in the anses below sea-level; on the bll-tops or in the higit plateses sway from tha mind-pses.

Of the hasty salaetion of sposimons ahown at the maetiog, in few are bare Hlastraled, and bear a striking resemblanee to recogninad typen of the pobisolithie eave period, berring the Errow-hesile, which are long and gabled with tang maeh like the type foand in Senadinavian dahmans; burbed and tanged like those found commouly in Europes and polnted oval or leaf-uhapeil, The battered heeks
 agreo with some Late Cave depealts. Well-diveloped grevers seepup (FIga, 6-8), anad loaf-ihaped hladea with attractive eslanring (Fig. 9) ara highly saggentive of Solutré, Coses (as Fig. 10) are inaluded, wad ara more likely to be planes than sores for pygnay implemeata ; and thare is an interuntiog speninem of tae segreatal tool ("ton-cong") with argiet an the bsee (Pig. 11), provligg that If if not the hrokes end of a selt. Augther with one flat bece standa fraly oq its thest,

 ABD FIDE VEWW ( 4 )

Fig. fu-2ear
 EFTA OASIB (4).

A ohenky opecimes, 4 fneher by if leuhes, is uerululy of paer workmandip, bat may perliape be alled-to the tortoine-core, Whieh nemes ba be at howe lu Africa,

Colour ta leat to this liden by what shagld rank an a point of Le Moustion lype, with a thinkeniag at the apor of the triaggle nuggenting an appronch th Aurigue telaniqus, at doas also a stenj-euded serbper, nesily' 2 fishbes long. with rathor angular vatlite and a median ridge. Tro larga planes, with the warklog adge at the sille and and reapectivaly, pamot woll be assignod to any industry bat Assignac, and man be matched in Frames if not in Togland. Tsbulat fliut, genamally very thin, whi largely ased for knifes, whids wes moees of lesp serritad.

To quite s different estegory belogg tos stoas oelta ahaped by grioding whioh Were seat for axblbition by Mn F. Mitabell to Mr. Lamplagh, of she Geplogical Narvay. They \#erd fousd on the property of Ex-lande Nigaris, Lad, at Nerkmen anmp on the Banchl Plateau, in 8 ho, about 122 milen south-eset of Bauchi (Ynkoba). The nums are slways at the bottom of the "wnelh," which may be B feet or 10 feet thick, This wnsh oocurs below a loany allariam which runi up to a few feet in thickosss, but is variable. Is is stony and containg tin are, restivg of deomposed grazite. The nativos have no knowledge of the stone implements and no ides of
their origin. Trukk of trees are posuiomilly fuand let the wish, Which tella agatiat a high autigulty.

Fig. 12.-Black volensie stone celt with oval seetlon and bluntly-polited batk. The carting-adge is nsarly central and ground on both froes. The atdes and half the faces towards the bath and are left roagh, wo doubt to faolittate hafting, Length 54 Ineles,

Fig. 13.-Cell with pointel oval saction, of hluabla - groy soloar, and gritty composition, ground only on the frees near the outting edge. Length 374 finches,

FIg: 14-Calt of aoft yellowish elayoy stone, with fat fuess, groand only venr the eunting-edge. Loggth, $2 \frac{7}{7}$ Jeehes,

Btg . 15.-Small cels of hard hack valemion stone, the stiles end theer ground nsarly all over, and the faoes nearly fat, the batt belag rounded bus not thlumed. Leagth, 24 indes.

The above were fanal probibly at 10 foot to 25 foot from the maface, and oxhiblf an untoxpeoted variety of form and material; and this improsnion is strengthened by a narien sahnitesel since the meeliag by Mr. F.J. Waters. One is hall an inob tonger than Fig. 12, but otherwisu identical। saotber, 7f tachas long, in male of


Fro. is (3)


Y70, 13 (3).
 the suma gritty atone as Pig. 13, That sioglo mgenem alde of a npecimen 4 Inoben loggy it due to nataral nteavage and eannot be regarled ist typicel, any mora than tha flat fuon of suother amaller uperchase with rathar pointed bith. One with the buth miesing lisa tairly Eat thoes and in the milditle of neoh s bralsed suas sud a mand spsaimou of lapare dajarta $8: 2$ inehat loug is brondest about the mballe nad narrown n litile to the polleled cut-timg-adgo.

From these and the Britiph Maseen serias trom Nigaris it is clene that the neolitito oeft varided sobnidernbly in material, sine, ousling, sed seotion, The same might be ashld of Turopean apecisient, fot the varintion nearer bime ean to oome extent be explaioal by the evolition of one type from another, and a elirobologhat sequasoe is atraady established for some diseriota. Bomething may yot be don in the natme direotion for Nigerin.

REGINALD A. SMITH.

## Burma.

## Brown.

A Burmese Fisking Oustom. By $\mathrm{H}_{\mathrm{N}}$. Grant Brown.
In the fiaberius of the apper Irrawaddy a tite if prantimet at the beglanalng 4
 village on the Shwali River, in lat. $24^{2}$, logg. $96^{\circ} 32^{\circ}$. The logend is that she was a rieh sad nmosota dame tho lent money to fibbermes for the conatruation of their weirs ased roceived psymest in fiah, with whiah elae bought the fsvoure of all the young men.wbo took her fancy. As she alwaya thred of ber lofvers, the died an old maid. I witnessod the noremony at the Yaukthwasaung fiebery, sbout two milea
from the Irnwsddy, in Int. $23^{\circ} 47^{\circ}$, Jong. $99^{\circ} 14$. At the head of the lake were rouged a number of minlature bamboo hooses ; one for tho Shwali Sawbwa (formerly the lous ruling prince), ose for the Dragon of Tagangeg one for the apitit of the foumiler of the fishery, and one for the Thirty-sayein Nats, or national deities-for Rurme has a national religion far more anoient than Budulhism, sed nowlere ontifely suppressech, theagh greatly dlsaredited. Apart from these, an of inforion reak, the Ohi Muid of Pyindnang asil the spirit of a suaneasfol master-fisherman of recent yenca buve enob a bouse with a lower floot than the vebt. Tbere we atioultars to others wha have workel the fiehery lor prolonged periads, anil dven ter a carter who, utrer a lifa speat in berthug fath, is Letleved to bave beorme a nat, ur waudering spirit; and the humblex workere woo not forguttec, for lwacahas of trwas are plated In the ground in honour of sueh of thens si may have met in the fate.

The ceramiay is held ai uighy la front of s straw fgurs, drumed in woman'i elathen and represatating the Old Maid. A man (for ac women nep proannt) apeako for laer, and sita bohiud the Hgares Ho ls supported by a persous who takas the part of hes father, anal by ethern who reprenent watal-doges Oppeaite bee dances a. Young humerrind man oulled the Sawbwa-gyan. Sowlown la the Sban tila for a mblar, and the udjeotive mana low, valgas, no that tbe youch sorreaponds to the Lord of Mispule with which The Goliten Bowght bas made on fumilar. He sopports agalnat his midale is phailna about towo fent logg, and shoge me oldicene sony to the acoompatinast of the wual Burmese band. At Insurvily batwem the dnates is parleying, in vary grose language, betwaen she parenta of the man and wombs, and A dowry of tish is offored on belualf of the dater. The watelenkeg, with bach
 the alraw figore io seriyped nad bald up by iwo wast, whlle the youth inserts the
 deed of Eliad.
 imitative miagle parformed with the objeot of maklag the flab muld ply; nad that, While the amoroun pplasier of Pyindamge ensy very will have extated, the tite is probably of for oldor deto-at old, perhapso it the art of Eebling.
R. GBANT BROWN,

## Yoruba: Folklora.

## Wyndham.

## The oreation. By d. Wyndiam.

The ralationdips of the varions gota are difiongutiy stated by Ufferest 58 ublefe nad priente of Ifor, sad sloo by tha dame men at difforent times,

Ie oppoard, howavor, that Arimeie calad in Hanven, and sant lais sons, Odiwh and Oriaka, to s darls anil watery regian belon to ereate the worth and to poople ts. According to the legeads told in Ife, the gols were pat snaf awny as a punisbmanat fut there is some stary of wrang-lofag mentionad at Oतu to the Jha goninary. Aramfegave a bug fall of arte and wisdon to Orishos, asd the kingably to Odawi.

On the wny Ifom Henven Odiwa ioude Orisbu druak nud stale the beg. On reaabing the edge o! Hanven, Oduws huag is chata over the oliff and teot dowe a priest, salled Ojóma, with a sunil-sball full of magio saod and on "Byo-fingered" fowl. Ojumil threw the sised on the watgr, nad the foni kickeif is obeots. Whersver the fowl kicked the sand, dyy land sppeared. Thus the whale world wae made, with Ife pa ita nentre.

When the land Thad firm, Oduwi and Orlela let themalver down the okah, sad were followed by several other goils. Orisha begas traking humas beings ; but

[^51] Oinwn sent up, anid Aramfe sent the aan, moon, suid fire. [Fire whs sent on a vultare's hesd, end that in why the valture lane no feathers on Ite bend.] Then the goch began to tesel their uroi and erafts to mant

After many years Orishas made war upon Oduwa to get back his bug. The varione gods took sides, bat sonen looked an. The medieine-man provided amulata for the men on both sides. Arante was engry with bis mons for fighting nad throw Lis thuderbalin imparsiaily-for le whin the god of thunder in chase days. The war Is asid to have lasted 201 yaars, and came to an ead ooly beosum the grohe on Oiluan's aide akked tum to give buck the bing, Odaw'h, in a huff, trunaformed to stone and ank besoath the earis, taking the bog with bim. His noo, Ogan, tha gail at inan, then beacme logg.

Aloother age peased sed them was anothar war in He, Some ooloniste had mada a vettlement at Igto (or Ubo), and uftor some yoser thoy mado whr on their fathers (than goid) hecanase tbey luad gipen them oothjng. The gela alrove thoes sway; but the next yeir the colonisu camer agaliu dressed bu hay all ovor, frightened the groda' alherenia sud defeated thume. Orasyan, soe of Odews of of Ogas, wan the lesder on the side of Ife In thin wars After the defest, Molemit (the great heroine
 of hovries tor her sterilien nod gave in fenat to her olhilifen. She gave Euha some of the tood. Avoordiug to ove neory, Ehha unterad futo sam Tho mes and paused him to betruy the segrat fo Murimit the pller story in thal Merimi weat in in lutlot to Ubo and thas found out what the ramed to kuow. In the inesotime the gode,
 Morinal told Oranyas to liavo ore mady for the noxt The lovagion, and the ttbo Warlow were humt to deaib. Thls riatory is sulebraidd every yen by the Edi Fertival. Aueonding to thei story, the widori and ablldren of Ulo who were broutht
 thelf fatlole (Olaho); and thie was grabted, bal they wore bold they mount rin on ajght of Marmi's tire. This of sill dous, sud firm to taken oof of Ife to the bugh
 has to do with farmiog, as the Yorubu burs the banb to propare for farming. Sdr
 froo-love for the seved days of ber festival.

After the Ulio Far, Oranyan seeben to have sjeat many yearn in and around Oyo- Thille Ogan remalaed klog of Ife. Dlibmately, Oranyan retaraed and diaplaced Ogab, thad "went swey."

From Ife the wholn world wat peopled. The whitn recee wre denoended from Oleorighoy a wou of Oritha.

At an earlhor date Morimi, haping only one child (a daugtet), whe alvised by Ifs ta sactition the gitl. After that she had many aons, [Offon Kactan was If meabenger.]
J. WYNDHAM.

## REVIEWS.

## Psyohology.

## Rivers.

Dreame and Primitien Critursz a Lectace ropriated from the "Bulletin" of the Jokn Rylasdt. Llbrary, 1918. By W. H. R. Rivnra, M.D., F.B.S.
 which, secording to Fread, dreans are prodacol, and shose that are manifested in the rites sad observanies of ernde enleurer. Without estirely asasenting to Preud's theory, Dr, Rivars jusdy regorda i as a work of ganius $;$ and he considers is to be in some degree corroborntad by the parallela les finde with it in savage practices,

A dreami, in Frend'n anslysis, han (1) a druncric chansotee which dieguisea its troe Intent content of thooght and enotion? ned the drenmimages of persons and things, or some of them, are tonerste (2) xymuals of thase matives. Simas Jimagn or images, again, imay, (3) by equdensation, repreaent evente atretehing baok io tho drenmer's Infacey; er a life-preserver may be a coulensed exprasaion of a physician's relationa with an bomiodial pailest sad, at the same cime, of his anixeties concerning o suididsI patianc Cobdensadion Jevolves (d) displacenient of interest: an montion originally attableg to one objeet or person in tranaferzed to another, perhapp to an apparontly insignifleant one. Thle ia the worte of (5) the annsor, a powar of the
 she surfice in dreams, and in whas ways, by ( 6 ) a pocoudary eloberation of the
 wish, actuntad dhefly by sexual inotives,

Comparing these alarnateriatien of the droam with thoes of primitive cuilere,
 emsequanee of the way in whinh the shaughte nal memarios of the inepaltured depend (mope thau ours) ou mentsl imegery 1 to aot out suck ideas scrangthens thelr bold apon them and facilitite tradition. (2) Bymhnlination, agaia, is univonial anong sual pooplai at Motn (Bauka Ielaids). e.g., a matre, martcing out s plot of ground for se uahore ablid, carrien an as aymbal uf the ohild a coconat nuler hin left erm
 of then nat as an ayintal of the sheld is, under tharaggo dietarminiem, "the final and
 the head, and the heed is offen in other orgmonian sppresented by s soconat, and is widely repardad on facrodi and (though this in sulknown in Malauesla) in Iodonasia, whenen Mulanajian multare bua boen mach Inffaneced, if is belleved to be the neat of "sond-rebitanag." It therefore alm illustrates (4) the dlaplacement af

 In the different practices that layw beea deelved froon this sacsa belief in a vitht probalple dwaitiog in the beal, such an the caimples retigions ritand of Bolomon Talsed bead-humara- (b) Dingulae of mesblag asd eessurship ars lavolved ia tbe myatifioations practined on the 'popalace by prients and eotoerers who have peoteric
 Molatening, give theif dootrines dramitic exproasion. As for with-folfiment, many rites have thio obarnotar, bat otbere are baed obs grief of on fear. Stallarly, sox-motives are frequent in primitive social behaviats ; hat the lastinot of solf-pasarcation ly more iemportint.

All these reaemblancos betwean the mechaniam of dreams and phenomens of primitive cultire - both belug manifestations of that buminim mind -do noth in Dr, Rivers' judgmeni, iusply the trath af Frnul's melames, hart lend it samn suppori, and point to their both being due to procencen of an infuatile or analy stage of mantal development. Morepver, as dreams arise out of the enoonsciopn snd their true metives may have bean forgosten, though diacoverable by peyoho-sneifxis;
 whe prectise themb, and yet may be brought to light by ncientific atady.

One it tempteil to adopt in saying of Galton to his friend Herbert Spancer"your theory is so beantiful that it ought to bo trues." And in one sense Dt Rivers" theory is true; all the charseters ha enumarstod see found in primitive obearrancen. But have thay any apecial somouction with the phonomenn of dresus? Aoourding to Fredil (as I understand him), all these charnetare abould be looked for is a sliggle dream of an adult man of woman; sad to proserve the parallel they ooght to be
exlubited in a single rite, or in a comnectad saries of ritas ; whernas the Motn gardener, with hit enconut, "presents anly thee-bymbolisation, condensition, and dieplacement of intercat. Them, the symbolisation is not uneonseions, ne a Freadian aymbolination shauld be: the Mafa man means the cooonut for lute child; wharase a dresm-symbol to supposed to ropreaent bome "buried eomplex," de to ooedensation, sgais, should
 4 and bamplax olsin of events," he onlled aimply an effeet mather than a condensation ? A condersation (ne I understand it) is $\$$ reprasentatios of at lenat two nhaina of avents ; likt tha lifgeprevecyar above-meutioned, which ateod for relations whis an bomkidal and ako with a suleldal patienh. Thas the boobnat would be a sondessatios if is bul husepsided frow a forgotion pask when it what used ae symbolie of on unborn ehild, and slan atond fot a forgothat tatem of tha gandaner's elam. But an effeet is say preet in pasiura or mind, Amaming or waking and lt must be dae so
 of interent, finally, is apt to acoompany symbolination, and sonda to obsoure the thing
 forgoticn: but with the cooenas intereat ling been dieplaced froan one shlag rymbollsed
 las bappooed, net in the mind of an ludirldoal, but in the conree of gaierndioni and by pasaling lram ona muntry to saoshar.
 to ma to laad up th a proforsily felpreating teadency of this lectures namoly, ita fadication of miversal methapians of the haman mfad and sot masely sharactaristice of dreasin and primitive owhurs, Symbelism, condensation, and tronsfer of internst


 are oondenation of seasory dafa, Mamery is pymbollo, and li rary lisble to die-

 dreams and primitive Nitss show on lafandle meathlity, theo, it is net in the madhanisma involved bit in the cradily of tiate dervilepment.
 may be drameless. An the ebpes ribus towati the Fnking level, rensaselation many be mupposed to sat ln, novompenied by the radionata of thougbe and impulse, hat all elinotic antf the mounent of Whiling. As sonn as ngeseioagses ravives, it nots as las bublit lf-tries to mike sente of the givat materiala; and, so far an the given materials ire frapulaive, sense ean be mado of them only by deamatiestion. If the firsi draft of the play is untatisfantory, eonacionimens may probent with a aneondiary sahuration: at auy rate thọte is gront tikelibood of this is reporting the drean. The impenaton come droms leare of havieg lasted a onnaderable time fa probably an illusion. Sunh extempore drametiation must be symbolia, aud la pretty aare to eandeapon and to dinguise the true contert of the foregoing chaosf and it now seeme cartsin, from Dr. Bivers' own invastigations, as well is fivm whose of orthodox Froudinas, that what diat oostont was can ofien be dipoovered by poycho-snalyaje, and that it may he derived parily from recent, parily from some long pati and forgoten experionos. Dr, Rivers promisea ue an acoount of his own investigation of drsanas, carried out whilist engagach rith psyoho-therapeaties in sonnection with our late troublea; and we may onnfidently look formend to his placing many of these things of a saine footing.

CARVETE READ,

## Philippines.

Benedict.
A Study of Bagobe Coramousial, Mogic, asid Myid. By Laura Wstson Banedici. Repriuted from the Aronals of the New Yock Academy of Barienioes, $0 \int$ 1916.

Sibee the Americail oceupation of the Phillippinen a scieadlio silivey of the natives has been underiakou. The resalis at firat were published by fle Departunat of the Intariar, ememetbing wita Mr. Jenka' elabarate and Folunble atady of the Bontec Iggrol. But thaso publicatione waro afler a while dropped; and slace then the reporta hava lad to flod publishers where they enti. The prasent stody was sulimittod is partial fulfilment of tbe roquiramesto for the dagree of De, of Pollosophy In the Faenlty of Philosopity of Columbla Univeritiy, and publibliod in the Armals of the New York Acalemy of Balonase. Is meny be sald at obee that it is a moas fmportant contribntion to otiz knowlelge of the batlves of the iveblpelago, and
 of the syntamaila pobtieation by the Gerurament of the resalta of the prryoy in unliroken serien.

The matarial wes gathmel pe the apol, in the yoart 1900-7. De. Benediet is a elone and elirewd aboeryer, and made the beat was of ber time to gain the jaglgas sha diselones lato the evatoms and mode of thanking of the tribe ahe thane for invosigatlou. She deveriben the Bagohe at "oze of thowe Malay onlaral groupe in - the maunsainone country of south-maitera Mininnied, whidh Lave rotalned thalr pngan
 it may be odded, of Clumstiarily as preeented by the Roman Cathollo mbanoanies who triat apaimodioxily to wio or coeree then Injo that falth. Unfortanately,
 purviaw the whole of tha callure of the tribis. This hrows lear seedy of the rallgious
 Howeror, abe was corapellod liy the necensities of the oase to prosent a cousidarnble porton of the colture, not dirpetly religipuit, either by way of formal statonant or alluadon, in arder to explain many mathers, oomneated with the obromonisl ond beltat
 prostioen and failb had buen prorionily publiahed in the Journal of the Ausrieas Fotalore Soriely, It oonsiate of folk-talea ambadying mads of the religiona and othar lara of the Bugatiof sad reforense to it by the rowler of the proment attuly if frequabily nopasaary.

The rallgina of the Bagolog, we are told, "to chatnotatised by the highly saent-
 "riten, Io which are bleuled both offatiagi of the blood of thaln viotims and "agriealtand peodantai by the non-osoterio elsuranter of the suliginus Life of the " sommaity, wheo the people-wamen, yonig wiva, strildrat-are froely admitted as 4 apoctaters of almott all oaremanief, and as valued partipipatit io many of tham," T'be Bugsbo reobgies a uumber of gode presiding in the nime heavenu or residant ls the earth, Though noene of them anc apeetelly valuod in relation to the life of tha people, bone of them in rogatded as suprema-nat aven Lumabit, the god of the lirst beaven, or Panalale Manobo, the orentor ; ane erea Malaki t'Olu k'Waig, " who repreente tha
 More regarded than most of the godi, because wore fesred, are the Boso, domona af various kinds, all morb of less bogtile to mnokind, and many of whem sre the ovil wotls of the dund. Everyoue is belleved to tave swo souls-Che Gimokud Takaranan, of right-hand sotil, whioh goes to the place of the dend, almillar in all respecte exeept its ebadory nature to this earth, and the Gimokud Tehang, or lefhemnd soul, which bocomes a Buso. The cult of the dand is pratised, its ehiof abjoct
belng to peranile the Glmosud to remala as fer from the living na poasibles, "for thare ls clearly a luriking fonr thes the dead spirits may retarn and draw ther " living after them."

The eliof roligious festival is that of Giam, wr driaking fentival, at whioh the gods drink the blood of the sacrifios, and the people the aeremoofal thlele sugar-oana IIquar. Ita object is to samere prosperity, and ehiedy the fraite of the warth. Hamau encrifice wat mo essential fenture of the fosst, for which head-bonting espedition ware prebshly wisiatakon. Both bead-huming and human sarifice are, howgref, aper inconvesiont, and the goda sro eompolled to pat up widi apologiea throwing the blame on the Amariest Governments and with tha subatitution of nothing more valnable than in elatolen.

Tale featival ie mioutely deacribed, A targe seetion of tha aduly le also sonpersed wist ibe magieal ritan, the trestment of diasase, the opiritanlistid sidewees, (or. in Dr. Benedlof ealls Lbon, "intarviewn Fith tbe gods," the [nfluanee of a syatem of isbas, of panem sud drenems, and with the marriage and denth risen, All tbese ere wortby of the olosent attontion,
 and wyth, It is a вans and eamful maquiry, it whloh tha many indunaera liksly to

 theroby avoided. IFad the outinole been reideaed, is is likely that maey of the provisional rasalts woeld have been enodlliesc. The funeral enatomi, for fastanue, boted se comanos to, all Malays are almort sll of shism, it ons form ar ather, is be fotind among a great varlety of peopla and over an sreen not oolnoldent with that of
 thtareating goastions. And thoie are only sumples.

It may bin nddad that Dr. Besenlist foend the pigmented sacral sphty mook dicuased some the upp, on soveral Bagobo bablas thas mint bxamined, sud whe tola by the wromes that iff tabtas lond it. They balleve that if it be abouns the iafaat will some dibi therefors they sake magioal masoras, bers detaled, to bnsure its prosanee. Soch is the metlenlons eare whleh. Dr. Demedies has buatowed of her work. The resalte me cocraspondingly valuable E BDDNET RABTLAND.

## ANTHROPOLOGICAL NOTE.

Acobatonk to thil Latiant or the Boral Antaborologroal. Instovers.

Netes on the Tribes, Pronernost, Ewirates and States of the Northern Proviness of Aigeria. Compiled from Oltial Beqpotit, by O. Tomples Edited by O. L,
 1919. (The Authot,)

La Predistotra, Promière Purtie tuiroduction à l'Etude de la Prehastoire de le Belgique Elewents do FreAisleire Gemarale. Fur A, Rutot, $10 \times 64,161$ ppNumerous Illustrations. Les Nupuriliates Belges. (Musbe Hoyal a'Mistoire Naturello tu Bejgique.)

The Evolution of tho Dragon. By G. Bliliot Smith, M.A, M.D., F.B.8. $94 \times 64$. 234 pp . Illumtrated. Longwane Groan 104, 6d, net. (Tho Pubitahere.)

World-Pomer and Eculation. Hy Eilsworih Hantingdon, Ph.D. $9 \times 67.276 \mathrm{pp}$. Oxfond ttriversity Press. 10s. 6d, net. (The Publiskets.)

[^52]

KILLICKS

# ORIGINAL ARTIOLES. 

Marine Evolution, With Plate H.
One of the bldest of cratts in that of the leng-shore fisherman, who, while 02 his deepesea hrotber in paptitly borne frithas and furiher from all primikive ways, keops atill on nueh old finhing-errounds as the trawlers may spare him, autting his
 aucient thinge that, amid the weltat of wholesule fiab-getting, bave been lost by the man of the drift sud trawl lisheries. Amung such men, How, mish ooe lonk respeelally for aurvifals of the laboos and omens of prehistomie fishers, for the old looal names of Golilog-grounds and the cropturas that lighabie them, nud for the oldest asisting gear with which thene tioy bs caughte

In Weat Cornwall we havo ar roady nandetest for the age of such things, for Hows ta the end of the savententh vantury at lenst par finhorpeople were mare fumiliar with thelv own Celtic Indgrage than with Eogliah, and agoortingly many of them hear namana that are only to be axplained by referenen to Old Oarnius, ar failing the remesnt of that languggo, to Ite Brythonlo follown, Brotot and Welub. Thus, when we fad thab a rod around the eud of whiol a clusier of hookn is boand grapnet-wise in onlod a "gulenesg" (gaiatin $\mathrm{Nig}=$ hools-Fod) We, know thet this

 uo Corninh Esherman now lights hin firo upon a flas sione, bis Bretom cousies atill bes a buat-hnerih that in liferilly a min oaled, an be wonld prouounoe it, wa hoow that we onay be in tonoh wieh nomeding that tates baok heyond the molgration of Sonth Britpen to Amanrlos. It is a litale sarlone that this nee ate of a shene ia wesuetion elth fibling ahould atirvira in an name only, for of otber atones Tid have so many ses-unee that to a large estivat the Coraish Hehernan livee still in the Stone Ago. He ao logger, it is troif, tike fishopman forme moore backerand partif of the Britiah

 In the mennestebary lie uses one that, Hied to it rope rod dnebed in sod out of the
 these san be llailly neeured - tha "enbeoly naggosta botb Wolelt eydot [holding), dagcribing its une, and cabol (teright shising)t
 yoner aenaed to nee se B weigbt to oxpress toe oil from bia barrele of pilcharde
 me to form anchor-itape rathor than moorigge in the ordianry sanse, the man of the Wansers anvea uses a sfona, thes if lost is at least eseily replavol.

Thase stones, to ft chem tor suse ail maytblug bur mere ballast, wout in sinoat every case be to some extent band-wrouglat, the smount and natore of wueh work varying accarding to their purpone nad the kind of atome avillable; thoa, when the rook is alaty it in most simple to solels ity edgen un opposite sides to give holdfnst
 waterworm boulders, these sie giveo a groove ubont thinir middles for use us "atropsatones," are drilled for the jasertion of a hook to make "presaing-stonen" or a riagboit to make "plumpligg-etones," or evou bored right through to give the very agapara hoid needed tor a " opboolen."

Of all such sea-atones ${ }^{*}$ the bigheas antiguity may, pechaps, be elsimed for the

[^53]"atrop-stone " we anchaz ; but this, alchough in daily gise jost around the Land?e Eoil, is quive oboolete in most other eoves, and the variaty of bono-mado anchors, or "gillioks" as they sien enmmonly salled, that are and bpve benn need In Mount'a
 In its avoletion floan thie ariginal muoriag-stone.

In this evolution we may takp as atarting point tha stone, nol so easily met wlsh, that branke frem lits native reelobed already endowed with loins, na so speak, that might keep if rope-givde fram sllyplag off. From thin atage, however, the nidvuce must have heen almosi immediate to the next, where a stone almost saitable is made parfeelly so by the remoral of some auparflulty; fis it is handy to be thoughe that the man oepabile of shaplag any tort of boot would be satisfied to upand houra in lumting for a nentowsiated atone whau by a few blowi againat a barder pook be sould metre avollohite that material at hand. From this ogaif, the aaxi stage, whers a selected atone is nonoochly grooved about ite mbides, wonld xapidly follov, for the laliase spent on dhin waek woold noon prove le worth, an the amoyanes of chated, parting roper and lost atrop-stones ceasel. Abotboc devalop-
 whe, as far an the ancher is concorned, if blind-allay mavanent ! lut that whlah led to the formation of the first post andiof, by addiag to the wetghe of the stous
 diatibution of this atooe anchor, wilh ite peoullar frame of woud, is even widse thas that of the oursolins sud 14 mase on 1 l leval whit that of the digront ennos.
 suah anolors, in ane in the Talfan pad Ghanan denur were tikn thoae of Ineland nod Norwny," and Koetor's Truele in Branil, 1817, Howe on 2 hative Brastlan rate or
 If not secoansery to inmalde that the Fiemformiland "killiak" in a lona from tha

 stheed tit tha Aew Knglinh Dietionary to be of miknowe origin, but the quatatione tborn given! ulaw it io hava linen used of worse sart of bost-anchor as far back aif 1630 and that ita modern extontion so asohons of a larger klod is only ly way of joeularidy. Ia Corawall it was tormarly appropetated to boat-anehori of weod nid stotie only, nait apen now It la far Moant's Bay applled to tbe bome-made boutanchor alone.
 fa Fig. 1 a "killole." This in drawa frow a model fe whinh I beve elonely fallowed
 analiar of Konter't jaigadia, Here two oreacant-pliajed timbers wee planed asitireWise one apon asother, is pair of rods bolag net iato holes lrored to each sad held is place by pags. On tho middile of the uppor areacent and saclosed by the four rods is placed s boulder, in this ense lashed fo hold it dowa, and finally the foor rode are lashed togsther sbove, the mooring-rope belng made Inet at the lashlng. When dropped to she botom it will be neen that the pull of a drifting beat upos the rope mait at enee briag two pointe of the erescents to bear upoh the ground, oue of whalel ta practice will probably entor and hold biefore the ofler, thus actiog exactly as the finka of sil avehor, while the othar point warves as an stock. In the janguda authors (Eige, 2 and 3) drawn from models in the Baience Munoum, South Kennington, the croas-places are not erescent-shaped, bat flat anit somewhat hon-shriped,

[^54][114]
in the larger onen (Fig, 2) beligg given ilukes of a sopt, and fet into one another's suldakee so na to give the stocio a flat base upon which to reat ; the forr mids,
 sheir being drawn up through the hole, are gathered together and laeked a little lower (lonts, to na to prejoct alof like the poles of a wigwam, thise giving a good hold for the esble. The Newforudinnil Jolliek (Fig, 4) is ulmost tha same, but the
 Pour projecting tipe of theas foto an nest loop of eye to earve has an anehorring ;
 killick of 1680 and garlfer wha more Oke Fig. S, drewu fram a renuaturuction of my owni

From this assentilet flomarmend grapual of wood aul ztone, whígh toems is lave had "emalnelinws" as a namat as well an "killiak," it is saty to aee bow,

 Arate Ahowr nod other Enaters rensets on wall at in oar awn flshigg asaft, becama
 an sey to lu origia tian such a boat-grippol is in many pluens eniled by that nume
 ouly. From the some wooden Killick to the wondou ancbor of tbo Clowee mallar,
 is an abchon-tock when, entoling io harfer mound, it lase served io drive the poleb

 mateo way for a solld wooden ybank, oyon the conwa of whist the noir separated

 itnilf, by mensintuge always upoe the lower liaff of the thanky rombide at yot of the tond arta-piece wbeae plave it had thkne.

The ntaget if dovelopenent from the pritueval kililok to the lyon anchor as, apart from veend frgake, it oxfet today, aro leas obvioun. They have gase an


 Cormits fishemen win ean at lesst nee what these stagas might lave been. We se
 suatury, if not in the sightennth, is "familiar object of the aetusbore" to foany
 perhape mote thais one, and that independently, hat upets the tdan of the liventor of the Chlvese wooden ancloc-lbas two peisth alone ware really doing the worka ouid arrived by a sowewhat differeat reute at the princtipla of the anelor-stoek.

To abandob the stone way to hiles gothinknhla, and no less so whs the encmubranoe
 slowided that the stone itself must be the "gark." Then, retriviag ane nf his
 he set in the remaining linif of hite killick a loug stone, the projocting gads of mbiob quite effuiendy sarved the use of an anchot-afock if directing one of the two arma that remainad io a holdinat in the ground. Heaceforth he may be sosunsed to bave rende no reom four-wrwed killieks, and it la evident that he found converte to his notion. Fig, 7, from an emfraying th Abeted's The Chownel lolands, shows that the mid-Victorinn derseymen lenid not got beyond the stage.

In Corowall at the same period, however, two developmenta bad suready taken
place sway from thls form with ite two rode atill laghed togsther sbove the stona, and at Polperro, whers alate callod for a rectangular frame to fit its naturnt cleavage, thesp two side-rode frere futsad into a soognd cross-plees above, sharter and blutended, while further west, in Monst's Bny, the two rode gave place to a single forked bongh, witb or withons a hole above the fork to aerve as anabor-ring, the local name ut the latter frame with its amp-piace being "yoke "r and wifh renson, for it Is mude precisely Uke A plg.yoke, the stoos taking the place of tho ple's neck, Figs. 8 ned 9 ahow bech thane Cornish "krilieks," an thay ware asill called, although wa might jatly oull them "demi-killieles," esth of which is drawn from a model made aceording to [netractions givon by हishormen of Polperro anil Beasy's Cove respoctively, soilh thiaga having bsen common in both places up in rgeeat year,

A Mousehale, the four-atmed killek may poesibly bave Lated longer, otd Cornish wames that neme to apply to it railues thag to its two-araied debeanilant were at all svente ksown to a fow old pan there nome forty yeari ngo. Thene were Indros (the frame of a killiek), it whah moy be traed aloud dres (orcas-hurdle) ; snd kentapathengy (page balongiog to tha asone sachor laned is pustu), whloh sesma to be Aentreg aborth an gif (poge at the aide of the tence), deseribing aunly pegn at
 the rods in the other two Cornath kelliloks: No noelh killifk has bean wade at
 aod 9 ; but intend we find than werop-tones fited wilh a twist of lar-dron that


 (Fig. 11), bgaia traira trom a model made after the fantrusiona of a fiaharman who
 it loat, (ts parpoin being eoryed by a garved boa rod that is driven torogeb holes made it theae bonrdo, while at the top the boardo aro sgain pleroed foy below their ohamfered mantlog-plain for tha lanertion of a ring of trom that, holding thom together, sarves atao ut on andonoriag.

The alons sow is nous too sonmely held, bat after baing given a silgbt frooyhug If if bound tighaly ls plice eithoer, at in the model, by miling stejpe of lioopiron ahous stone and rood, be, failing that, by lashing it thape with wire. Hevi wa have the Ifon Afo making feelf folt for the firnt sime by the Stene Age kellieks, bat Fig. 12, from Marnaion, whinh may have bui somethlag like the Monechote killick
 itro.

Pig-frou has now almost kupplanted stonee for asens hallast, and a tingle whas of fion stitably bored is offea ased luatend of a strop-ntones, horn we see it taking the place of atoon for a Tooden litiok. The arme, an in Fig. 11, are formod by a carved har of iron, but this dow, lasead of pasaing through two side-timbere, plarees s. single bottle-glaped shank of wood.

This shank is aleo giveo a mueh larger hole, into whieb in werged a diacarded fire-bat from a stanmer's furnsee, that takes the place of is stone: sad a thitrd bete, ar an ara for the strop, completes what is a oumparativoly neat mooting implement. With the maxi step We arrive at sueh a wood-sod-tion bllillek as is stlll made at Beasy's Cove, Morision, and Penzabee (Fig. 18). Hare soft, flat, fron hands talke the place of the bent rud of Figs. 11 and 12 In forming the arims, theso having the adruntage of yislóng and straigataving under the siditiounl strain of a ${ }^{H}$ Spaniab wloillass," if they should happen to be caugbt too seeurely in a rocky manorage. Oceashonally, we s tuare shapely piece of serap-iron turna up, the fire-bar in improyed
upon, and nan sues auch a killick as thast in Fig. 14. Here the aoft fron band is fastaued to the lower portion of the timber shank; aomestimes, however, it extonde alunges to the top of this, as we bave neen in Fig. 19, and with the next nilynee If ousts the wood aitrogother, hecoming both yhank and arme itself, so that we bave asuh is killick as those from Mnrazion; in Figa. 15 and 16. Theen arb very similar to the fire-har and round-rod killieks und at Penzance (Eig. 17), Beasy'g Cove (Fig. 18), and Porchleven (Eig. 19).

At the Theter place, bowevar, sich killicks, known as "jinny-lins," have been in use for very many years, and thatr line of evolution from the wood-and-btone keliliole may have been (perhape, through s form like Fig. 10), a inore direct ane In these "jinuy-llo" Llitieks bhe round med In aither beaten to a shisel udge at its tips of it may le given what Jal bamen as the lase featare added to the suchor, sotinal flakes; bat in shape the usaal Iron Filliok is still more the the Cbinese sochor (Fig. 6) than the Earopess. It in towards the Lating, howover, that the killiak in to approximate, if the uewant slippe (Eig. 30) is to be takas na a geide) for thia, nketchad a low weeks ago et Pencaice, has is bariron ntook for nearer to the rimg than to the orows, and bases on very uggestive resumblace to atime asely farms of the machar proper is anal In the Modlterranemm,

This pariane bay bo inisated, of if may ramain unique-the killink aney hoome matged to the anchor, ur It maty remala Atrionty but whatever value as reproduching the evolution of the smblem of hope dur Cornifle Ellleks sany beve, there ean be ne doult st all that the old Feod-and-atout "grib-oblown," of it oonatruotion so curions liat it is almont Impontible to sllow foe It an Indopendent oplgin to places

 Incomplete an thlil aqcoant of the killiels ageseawily fa, It wit bave surved a goud purponed abould it direot ispon it the attantor of othare micse opportunitias tor notiog fir oucnyreaco are midar.
B. MORTON NaNCE.

## Folklore.

Maoalister.
The Fire-Walk In Ansient Iraland. Dy it. A. S. Macalinter,
Kildare, the site af the manuary of St. Brigh, whe undoubtedly in pre-
 Ohriatimi tlone the ulte of a flre and nolar annorany, sed the tradisfons of the oldor esisblishmmet bave in more than one rapoet soloured thane of the later. The tollowing logend tray bo a caso ifr point. It le givan in Ulaac'e Viad Brigida, and printed in Colgan's Trias Thanmatarga, p. 040 .

Brigid had e pupu, Darchugdach by unene, wioo naed to aleep wibh bee. The eyes of Daz-Lugluals ehaneed one fay ta full an a ueriain mati, for whom the whe smitten with mholy love. Whiting till her surperior was asleep, the rose to jotn

 following counsel, which she followed \& To fill iwa shoes with hat suals, and to walk shod theeverith. So the fire extinguishad the fire of her ardome, and the paiu tonaquered ber pain; and the returusd to har oonchy On the morrow Brigid commesdell het, promised her oxemption for the fasars from the fire of deaire in tbis world und the fire of bell in the noxt; then sbo blessed her feot, wad the burus were healeui, leaving no trase.

I enggest that thle legend is a pratition of the proction at Pagan Kildare of the cite of the fire-walk. Startigg with tragmentary recollections of a moman who walked on fire whit unburt feet, the legend would almost wasurally take its pretent form It sha walked on fire, it mast bave been for gelf-dlaulpllas; if her feet were suhuri, ber wonder-working abbeas must have healed them,

The nane of the heroibe as it stands means "Daughter of Lugaid," But it is highly probable that this is a perversion or 4 by-form of Dar-Lugn, "Daughter of Lug, the san-god.
R. A. S. MACaLISTER.

## Mexico: Linguistics.

## Breton.

\$ome Moxican Pleture-Names. Dy A, C, Brefon.
The olf Mexlan pletare wridiug of persobal sod placo-anamen deneryes
64 caretal stody ha a meshod of expreasiuf in sequence of aomads by reprasentatione of sbjeata. In samo drewiugn subsequens to the Spaninh conaquest a renderiag of the names in Europens seript thas addod, making it posaible to deeipher most of shom with the help of Molinote voubbulary. This ba the aase with the large plotare-map of
 Mamarial or petitlon brom the Indlans of Tepethaxtoc (Vpllay if Mesien) to the King of Spsin. $\dagger$ Moth bave llata of hamea, apparentiy of the pribelpel houneliohern, most dellestely drawn.

To Mas, 1017, 101, the plate was a reproiluntion of poe page of the Menturtid, bat the briat apte loy Mins A. Hanter aveompanylog it, could not ivoluda detalla, nueh as the name of the shiel, Tlipotoequi, wbich massa " dark and aweet-smelling," ail being properly tilt $=$ "dark," and so spell on another page. Bitber $t$ or $I$ it
 a blaak reetangular groen with roinded ende. The arblint liae not triol to glve "mwont-ameling " ploterially,

The namen la the (ithutwilioe gamaned for riferenea) are from lour pagar of the envamaript On a following pare it is stated that these pager eoarale the vamen
 proportlen, amob cilet haviog-











 to sha escouspiano ilike tise ramank"

The twenty chintot thurefore conteolled 11,000 familles, and this shows how thiokly populated Mexion whe as that times, before tbe advend of smallpox ased other epldamiea, is adifition to Sposial crubltiok, cartied of veas uumbers. It would appear that the tenanta lived le eluaters of houses, shen enoli sliet lise only a limited namber asaigned to him.

The illuatration containg twenty-ane of these plach-anmas and three hamee of the ehleb, drawn from Miss A. Henter's tracinge from har oopien of the origion). Figa. 1, 2, 3, are from Il. 211; Figs. 4, 5, 6, reversa Pl. 211; Figs. 7-18, reverse PL. 212; Fign, 19-24 from Pl, 213. The lines indionting the thick hair of tha

[^55]houseboldess were amithed in the rracings. The object held by each manill householdar should be a paidde. These wars only roughly akatehed in the tracings from which the names wero draws.




 sbore! liks SIav, it is a oommons ending of it place-nneso.


 with'teeth nbove und bslow. Byes are sobetime idifed. The Mexieen pletaring of roek is evidenty derival tran the iugged lava-fows. Naeds $=$ eat + ea $m$ pot.

 diene a fiat gpaos abont 3 Ieel of 4 leat in diametar and then aptan uver it a quasitity of makine bita of obsidian and soms gravel. They must take mach froable to oollect the
 sa ast-nat murruanded by marokjeal water,





 ficeme la hafit horisiolally, Taper es hill, the oisiat desigomion ot is town,


 $\mathrm{m}[\mathrm{d}]$ - bouse.
 verid conallenaly, and hev hry the crien bicthg from the lifa $=$ tes; an $=$ pot




 lasiaisy from the tup of s krome.

 Tlan theee iblefe are t-

 Froifiot by the mant weing the Indian hac-

 lipa snit raldd - somplos.
It will be ween that withons tho writtes jased is would be diffecult to goeie the mesnige of the rebig, mont of tho objacia laving anly thoir flont syllshles sitilinad,

In looking thragg Moitun for the porpose of tbont notes, one onman mom many interatigg entrice, abd a fow of these, ralating ta eustous und lolow, way be given hore, for thase uasergainted with the works" Then secenil edtion of the SpatisliMexiopa vonabulary by the Rev. Father Alonso do Molisa, of the Franoinosti Order, was poblished lof him los Moxiou in 157T, Nith the additan of as Mexicati-Spaning part, In hil prefene to the Jutier, the author says thas in the eourne of eompilinic the flrst purt (pmbished in 1.555), he "lond Ieed erndunlly dismoverigg the isex" bauntble mine of worla sad forme of speoch oentasand in this most popious and " Lugeninas Mexicen leuguage," He regretied not to lave learnod is fsom babyliood,
 "f Enow who sbould exernise Ghemeelves in it." Dpring the fifteen Yearn between the two edifioas, lie anstiaued to poetmalate information, asd added 4,000 words to the Epaplah part, whilat laving ons "very many wlatel will always remain morecorded." In a dedieatory letter ho writes of "the language and spesob of the "theirps, sapecially of the Nausa and Moxicsas," but ho slrays mises the term lesigue Merieana, with so relfetence to that of the Nauss. There has been rebently gome confuslon in writiog sbous the Mexigan laggange as if If wurt eonivaluns to Nurs or Nabas.

[^56]Molina has ;
weanili, wisols,
manalied, aratomancy.
esaallita, to hidele boltind zamsone.

savailial, iaw or mosittoation.

wewc, mo fantes, hulding henik
seskaizilatiki, the duace.
mraidlats, intarpreter of Iam late the pular torgue [the mistonary frien promptly tanght thaty young mas Estip].
natalle collas, to write in ejphar.

Nasa tharafora implies the idea of knewing more then the-ondinary persen,
Mollna saye that Mexigan was bast spoket at Terenoa and fa the city of Mexloo, also that certain worda wera naed in some provinoas and not in others, Tbe people must have maeried yonng and have been loag-livel, for in the list of velatoushipa tha followieg spe given :-

 also foand in Pocomebl.
"Yispalaeall-The water in which tbey Whabed tha kniven of eleerl or obridian
 und was highly veneraud."
${ }^{4}$ Taingehotin--To the rêh fanhars, joinieg thans to form a buaddrana ar at ${ }^{4}$ Image male of leathari. Uned so in metaphar te sifrily the foundation or the


The roel inwentness of the making sud wosing of fenthor deeorations bas bees obserared by the suppositige thas they ware rouve ornaments.
"Tianawue niguica,-To phan beblnd bonourable personh out of reopeos."
 proction foking we learn that one wia "to remove atudenly \& nhair of beseh juat " un a persun wua going to sit dawu." "To takg anmathog belouging to anotber us " a trink, suid to be obliged to loeep th bat dreing to retarni it to the owner for "shame of haring taken or stolen it aecretly." The extcouely atrong senae of nhame is very stribieg among the poorar Mesicand and Indiass. Sin terguensa $=$ wilbent abmen, is she moas Rornible condemintious. Honour la correspondingly strony and alunye to le triestel.
A. C. BRETON.

## Physleal Anthropology.

On Poethumous Deformation of Foself Human skulls.

## Dr. Seran Hamen.

The samewhat disuournging faet that tho racial elemente of prehlatoric Europe are, in spite of many years' exabvationa and monsaring, practically unknownt or at all ovents still debatable, has lod meto a critionl survey of the soaroen from which our knowledge of these flows. Withont, in this place, entering upon the bulk of thia mork, I vecture to vall nutention to a few consliderationd which might throw some light upon the question, bithongh the result at whilh I have errived is ratber negative.

Befora sutaring upon my topic I must recall the well known thesia sat forth by Thurnem: "Loog barrows-long skells, roand berrows-round skulls." Tha sbutenoe is falas and mislasdiag, but ontil this day it has been roganded as indicating the maia live at racial developmett in England, and has for many poars played a prominent part in the dianqsiba of the development lanoughont Europe, In aonifimanrion of which I neod only rater to the well-known work of Riploy;t It will lid a linal task to erailicate it, because in thote far-ofl times thare poolly were, as tharo atll are, langenkulied and round-akulled individania in Englanil as evarywhere elae Is Europe, grouped in smaller of grnater comunimites. Their tree relahom to the differest form of berrows bae not pef been setablinhed, bast is mast ba dons, and Ior the folfiment of this purpose prehistarie spuheology mast modartnke 4 baroful, eritionl invertigntion of all sach plasea of intermant, and try to ascartais there age betors it will bee posaible to dikeover whather there really leve exieted long-kulled sod round-akulind peoples on races. Thy material on which Thyrosen based hiz thoory was carefully examined some yeary sgo by Bdga Soluster, nod hip aumerona

 As the work of Sclisster nenem to laeve beas overlooked, probably liecaune be Mriself ban not omplianized ito importacee, I flod It sdrisable to give a shors namanary of his figarel, from which I have oempored the following averages r-


It is mot difflonit to tes how Thurnass many have arelved of hif arrousoun resula, hat that is a long staty to velate. Ais more prialant ealtatorstor, J. B. Davie, had
 Theramon's faclustige thort and olear mentence wan is socondann with the gemorel riewn of the meat promianet antiquarlang of the thme Latng and Haxley,
 Font mush furthef is doiniled nxamisntiod of the ukulln than Thumen ever did, bus the groat roputastion thin unhappy idaa han enjogenl is mostly doe to Jolin Labbouk, whase widoly sprond Prehistoric Thenes diseeninatnil if aver the woyld.

If is not my intention to begit ad dsuassion of the vary ineriante Britiah and cosefikenial mainl problem, I waut ooly 10 polas out that in troatworthy rasolt oun be atialaed without raking Inte seoonat they fact that tha ooplation isides of tosail hamas skulls is in itsalf of rary alght importanes, boonuse it is in a great degree affected by the poachumase deformation dae to tbe presaure of the earfben mase which has onversd the akulls in groves and other plages af interment.

Many yeara ago, even then grond-wnater of modern erniology, Pail Broes, of Paris, deacribed this posthumons deformation, ${ }^{* *}$ nad other prominent anchropologiste bare sinee onlleil atiention to it, but pobody, bi far ne 1 have been alse to pheertain,

[^57]ban sufficiently emplasized the considernble amonnt of seleutifio jaterest atiachei to it, moat authors having spoken of these defarmations as aceidental irregularities of no groat limportance.

As a rule it is not pussible to sen whather a fossil thenll bus heen sompreesed or not not how fac the comprension has gobe It is, however, n. well-ksowis fuct that even thlok, hard-haked pieoos of pottery found with such skulla are hot zarely sompressed to moly is extent that as similnz canaprassion of the glanlle themselves it av all opente highly probsble. Fonsil sloull are ganil) found lying an their sides. They must thereforo, when sompreased, have a lenser breadth aid a greater lengtil than they bas before deach. The onplanlic indes munt, is other tarmes, hee rebleced, sad is uan asily be dhown that a reasilemble reduction may lie due ta is very alighs omeprenslau. It lis, is is well known, genaraliy agreed tbat long or dotioho-
 raind or braolyoephalie akvil)s tbone in whieh it is mate thau foas-fithe, of the groatent lengit. Supposu, now, we huva a skull mansuring 180 mm , In Jengil anif 138 mank in breadth, and suppone, Neib, thint thin -kull, whose eephalie inder is 85 ,

 In broalth, and giviag a coplantid indax of 80. Such vary alight oompraspas bes


If ive take snothed skaih, oulf hrachyceplatio, manaring isi mm. In lengit


 esphatide mee.


 regtarsi, wish a gatien plasiantio Inugiti. I do aot viab to exbggorate the iampors-


 deforsace. The exters of the eompreation Sopenid, however, on the masume of burial. A mipie biriod ta foon soll will uevally bave the slonll foore evepuesad thau one bavied in a protanting shamier or oles, where the skenl is perbags ubt

 grositer thas that of les ansostors in the same conatry sony be due aololy to a poethumotse compresedon of the ukulle of the latuer.
 be raore or les albered tu shat way, bat sill we ann sey nobat thit is that any goch altoration is no probable thas earall, ro-esiled taidal differeacea fo foasit aktille are alwaye irreleynat, nathough it is probshlo that the fucial mosaraments may be
 Jengll, breadtb, and height.

I need not ropeat that ve are gencoally munble to percelye that a foasil skull las boen alteved. I only deal with a ligehly probable possibility which is not to be donied, and whiak mpat neossarily make ne very earefal io all our conchasions regarding racial differenose between the hypothetient prohistiorie ruces, eapeclally the cephatic index. We must surroidar a great many of ane formes opiolons, anil bury many dear theories, but the loss is not insupportable. The developmest of the racial peoblem has in latar yeste redrenil muny prehistoric racen to small lots of tudirhduals
withoat any right to the ritle of a race, and modern anthropolagy will survive them, Geantias has wold as that the humas racee nere not what thay ware mennt to be, and that tho divereities batween difforent populations or ethnia unite are not maintalned as rucia! ahmucturs unlens suoh anito treed trae, which they rever do, practically, The gront vuriability of such mits is monibly due to the heraditary cranamisalon of freely oombiaed, aingle lidividal trits from parente or more remote anmestors, subarding to the Mendelise Jow. Granter or araller etbuic muite may, when not erossed with otber unith, for a time mointhis a bertain uniformity, bat ench erosaing will somer or later be quaroidabla, and lead not to aniform intermediate mits, but to intermediate individuali poeseatlog all the truita of the orossed suits is froe ormbination.

The erreat diffrence hetween atoch humsn main rnees an the whlifes and the negroes la posalbly due to their oefgiantiog frow diferent apalike anamatora, bat what weronlly know about fage ancestors ite nest to nothing, and the same muss be enid abont the Earopenn so-called palaolithle raoe日, The few brakes aknils and other hooes left wa ut the noly hugna ramains from a pertal of prolably mors than a hoidred thouanal yeern ago, and from difforont guologleal strata in sil parta of Wuropen are aill much too fow for matalinhlog a milable anfloropologiond syatem of mal value, however interentigg it may be to deal with ench viddus, All thesa
 who bepe Alasppeared wtaligot Levving the silghiest isnee, that it in quite lugpoesible to say anything mare abont the pataolithla popalation of Burope than that we do mot ksow what thto papulation fooked fikr.





gORTE HANSEN.

## Yoruba: Folkiore.

The Ouit of Porbedn 'abo. By J. Wyndlam. the forens to briag forld biris and beatel. He wan a san of God, and oneme so anth with Eblior (rondilp) aad Edi, a gad who anases maen to do what they lonow to lio wrong

It he avident from the incantation below that Peraguu 'Gbo was arigially approanobed by people to hend of ehiliden, but nowadays tie seme tormala is recited by the priest whataver a mas may le askiug for. The prieat tells the mau to bring a sbeep, kolin, palan-oil, a plgeon, a cook, and a heas also is live gost for the pricas,

Tis priest kills the abeep, pigeon, ooek, and lien. The threes. bisia nad a part of the sheep are plsced it separate broken pote nith palm-oil. The maul it then cold to prodace slae pensyworth of kowries, trabel are also pit iote the pols. The priest thkei the lulance of the macton in nddition to the live gost
 the fuematation:

1. Ifbo lobt fror - . . . Tbe forest bore the sloth.
2. Iror lobi bgübor - . . . The alith bara the mankey.
3. Ogathot lobit fhan-námajá - The moekey bare the laopard.
4. Ahan-ańmaja lob! Erellu-ügátan - Thin leopard bore the guinea-lowl.

5. EKkisá lobi 6ju-gböna - $\quad$. The hawk bore tha evil aplrit who guards Heaven's gate.
 thin Ekn. of mea and wouen.
6. Peregún 'Gbo bi dböbí Imile - Untramslated. Imaile is Poregúts 'Gho'n messesger, and is sent to do what the tane asks.
7. Oriyfmi la-popo . - Good luck in humant
8. Bee úmi lape okdte âba - - The pather of a lacky child is luoky,
9. Atorifdórla Igblá tordife fon Áarliuiofla Tghald sppronched Ifa on behalt Oránmile nigbst nwon fi djor Iku re Worln.
of Orummils when shey had fixed his denth fop Jie motrow. [itorladiola Igblde in a goed spirts who keepe oal. postponimg nit ovil deed auntemplated by ganeope.]
 kêrch tikêred. pregasucy vill begin.
10. Orórmila bi on ko yómle Aran - Orámilla sayn the the (the ohidd) will nek go to Heaven (i.en will be bern alive).
When the pries bas finiuhed she reoltatige, the mas takee the pots to the
 Who podered Acorladdis Igbldd to go to 14 , abid le now anked to send Inaile to Orisande with the appltennt's regnest. [Tha instatation is appartatly lu nome form of archaid Yoraha, sod the Bebaliwo had to explain suinth of it to the fererpreterSome of the trauslatione sod probable very loone.?
J. WYEDHAM.

## REVIEWS.

New Caledonia: Anthropology,

## Sarasin.

La Namallo-Catedenie io ler Diles Lajalg, Sonvemiry de Voyapt d'sup Nataraluto. By Frias Seraelo. Tradale de l'allemasier per Jane louxa 1917. Paris : Cb. Fleblibnolser \& Co.

As may be gathered from the siale, thie lataresting volumes is a popular rashar thani a teetuical acoount of the apthar'n obserrations asal forentigatione in the lelande vieited. Is in, however, by so mesen an popular as to be devoid of interest to the stadent of andiropology, whidh subject receives the liou'e share of attentan, The illaserations age natnworthy as coverigg a wido feld, aud although many of the applinnous asd othat oljeects figured are of focros faciliar of all simibnta of primitiva technology, is is convenient to have them togecher in small domphan, and there art some typea wbleh will be how to minay readerer One is parhapa apt it ragand specimate from Ner Caledonis as relice of a dead pant, bat althoggh eonditions is nadive life sra ohangel Iodeed from the tames when the sbarigives livod their own
 that are facoiliar to zis in sale-roon or munetin, ${ }^{4}$ Les magalliqued hacbes de parade "que posádrient lea ohefón sout égslement devenuss très raire. . Cep armas ${ }^{4}$ do cerfomonie sont de rraies flems de la stebnique niontithique"t and he tells of s obinf who came to hime by night "et i I I'inso do see administres," to progese the purchase of his emblein of rank, sinoe his prestige would hare suffered umotigst bis poople if they had learat that he had volantarily deprived himself of what wo lahel in vur muserins of " n seremontal sxe, the haft bound with ooed mede from the " for of the flying fox," The transaction is ovidence of the disintegratiog power of civilizstion, wheleh wha etill more marked in the sase of a native of Maré, who eold
the skeletons of two abiefy, life anoostors, for 20 fraves. These chinfs were, troveover, the two frot bedives in the teland to ambrnoe Clirlstlanity, and the exhibition of sheir booen In the masemm at BAle may be regarded as a tardy meognation of their openmindedness-a obsesoter elgarly trandmitted ta tbulr desmandent.

Yarlens phasea of magio snd religion seesive a good deal of attention, both In Lhe text and the lthatrations. An intaresting neoaint is given of pain-taking ceremoutes, the proceedinga, as is commanly the case, being atrongly "symputhetic." On the taland of Mans, where borles were frequently doposited in caves, the drymess
 mulas bieu notieecrées,"

By far the greater part of the book In devoted to New Caledoafio, the sathor having speat only a short time in the Loyalty Ishands. For the detilled recarde of the qasulta of sha expelition, studnote are raferred to tho nathor's Noun Caledonia,
H. S, H.

Indta: Archsoology,
Marbhall.
dredralogieal Survey of ' India, 1918-14. By Bir John Mnzklalh, Dalauta. $f 8$ 1017.

The Anamal Report of the Arehapological Surney of Didia, 1913-1d, is it vary

 earried aut slaus Deomaber, 19i2. Ale J, Marihall inforpse an shat a speolal, fully Whatrated mosograph on thla wark, la whicts lie will have the advintage of the
 work appesif, the prument valuans of the earvey sill remaia the princlpal noired of
 alrealy bunn tseued by Sir J. Maribnll, is Which a notice han appeared in Mak (1010, 48).


 Plate if showi the aktent to whigh the work line boon ontrioil ont, and the simber at valunhle stan now laid bate for the first thas. The eseavations around this stâpa liave proyed thas lot date in not so antly na has goancally bona nupposed, aed


 foir groat tifian getewiyg wern the last purt of she dasigo to bie aroated, and af
 list of sil. In striving at these comelasions, the eompatiens of the aculptures on the gatowaye bas boek of guent valae. Examples of these will be fognd is Plate $\pi i_{4}$ whare the same meldeats st treatel to the southers and weatern gatewayi are shown.

Of enarooly leas intarest in the acocout of the excsration and restoration of
 If aow one of the prinipipal atfraetiona of Sonobar.

Of the other less complete stilipas lald bare (suolh an Stipe 2), sod of tha many temples sxcerated nod restored as for à possible (eppeoislly No. 19, shown in Pistes $x$ ilil, $x(y$, and $x \vee)$, any full sccount here is imposalble. The re-rection of the columes in the ease of the Iatter was an absolute nesessity if the whole bullding Ths to he presserved from collapas.

Abtention musi also be drawn to temple 40 , whioh la probably the olitest on
the site, an apsidal abaitya hall, not first laill lare (Plates xis aul xs ), and temple and moaatery 45, whiah is ove of the hateat bofldings (Plate axil), erected in the tenth or eleventh century A.D.

The work earried out at Sïnchit is is importasa as milythting of this klad as yet done la Indla.

A good deseription of the exearation of the Avmatiswabit temple at Avantipurs, on the Lmokes of than Jeblem in Kaphnir, is given by Mr. Daya Ran Sohal. Thir fine medineyal temple wha destroyed by Slkandar, the fmage-braaker (But-kikan), at the nad at tha forrinanth centary. The lawer part was fortunkely covered by silt from floods, which bas proserved mach of the aarving. The senfpares shown in Plates sxvii sud xxviii are of grant iuternat an apecimans of the Knahemir work of
 requivea spenist notiog, an also the groap of in the sarse plate, which M. Foudber considan to be as dereendant of tha Gundhira groapa of Plinebilki' and Märit.

The fulty illuptrated papar hy Mr. Durolielle on the stone sompturea ta the Aanida Temple of Pagun does noi doal with any new Alacoverios of exeovailons,
 very Iltule laformation bad as gat hean made svailable. It in ourfinient bave to desw attention to thim importaut enotribntion.
 excavatione at Boairh and Behangar,
M. LONGWORTH DAMTS

## Denmark : Arahuology,

Nordman.

 Frailler do "Chambera do Gionts" na Danemert), II. Mhal, 2 Eette Af, D. A. Nonhianat.

Thin in as nelontable acoount in Swodiah, with a mumary is Fieneh, of some rooesh exceyatios uedorskem soder the napioes of the Natlonal Muspum of


 cestoin,

 lut It lias been stated that In Jutand the two fater forma are shigenis as at the petiod of thalr soastriction the pendaule was lavaited from the nowbl by she peopla
 show, however, that the sépultaree a puterie do ocour la Jubland, tbough they are by no menns commen in the paulunula, and their peoarronoe in conflied to gertaís aress. It is to be regretted that this memolre doen zon hoelude a map of Dsomark, showing the procitions of the manaminite in quaption, for it is by on mean enay to idontify the sitan wists an ordiusary athas, while the exact limits of the oocarreaco of this type of tomb, aspouially in Jotlanil, is a matier of considerable interast.

The test dosesthes ten tombis-ous in Laelant, three in Zealand, and six in Jutland. In aloost overy esse a plau of that tomb is given, and thase show that in
 thay oonaisted of a slagle ohambor approximately if that motanilly reotangular, approaehed by a long pasage. The orientatioe of the pansign moma to hava variel, though the opminga wert alwnys kore or lese to the cast. Soctions and photography ure given in many ensex, though they tell pe leas then the plans.

A very fall seconnt is given of the sostente of the tomber, with many Hilastre-
 tombe in thile region, and la one case, Rnevehbj, in Zenlnad, thars was a pin or
 betore placing these tombe in the neolithle age, even thongh metal is haunliy absert.

Bit it ta the illnstrations of the pottery, aimirably exeouted, whiol conatitmie the ahief valus of the velame; forty-seven pota of fragomens are shows, and thase give us a better (dea of the warea nasociated with megalithie ofonmbers thun we ocold obtaln fros aby previous work. The pottery is not all of neve style, and the author distingulahe two typen, ono a magalithio ware pare and simipler, the other atfeoted by some foragio influonec, probably that of the uners of the slugle grnyes.

In this connection it in fntaresting to remaenher that Dr, T, H. Bryee, wher raperting on his explarationh in megralithia tombr in the Iala of Arran (Proc, Sot.
 thare bore reaemblancea to atbers found with aimilar asecsiationt sjaurhere. He gava Illasinationa from Prames; montly from the dolmenn of Britany, from the Pyraness, from Eil Argar, and other carly sites in Speln, and from the magnifehle manmments is Demmark and Swedes. Meat of hid pasallats were very striking, and the Scandluaviar exaraples slowe were aneonvineing. If, however, he had then had the adrantage of manalting this velumeg be would lave fousil a large number of escioplat alosely saulogros to thope whidi he found in Amm.

The mast dintinotive fype has a uarved bas, the nexions of which is a eon-

 terminnted by a bead fim or at outspreading lijn. Bealdoe the siten mentioned by Dr. Bryon, fhis form lane alon bene tound in the Canary Islavis, in the trat Slenlan period at Bytnotio, and nmear the dolmonn noar Tarauto,

A ambur of skelefone ware found bat so degeription of these ocours is tho promant roport ; Wo are protifend a fullar socount of thone and other combe in an artiele which is beiag propured for the Aarlugrea for nordisk Oldkynalighad. If is partapa permiablble to hope tha thlo ardole wlll contado Ithastatious, dosariptona, and fuil mesammants of the skalls, and the ditmeasione of the long bobeth, benida a masp niomig the diarritotion of the different typer of megnlitile tombs in Denmark, and an asalyals of the metal Jeaplements Jeand is them.

HAROLD PEAKD.

## ANTHROPOLOGIOAL NOTH.

##  Ivantituth.

## (Donor indiealed is parentreses.)

A Comparative Siudy of the Bante and Semp-Bantw Languager. By Bir Hirry H. Johnstont, G.O.M.G., K.C.B4. D.So. $10 \times$ B. 850 pp . Sketch map. Clarendon Presh, Oxford. (The Avilare.)

The Folkteraler of the Kivai Popwans. By Gunntr Lendtman, PluD. 11f $\times 9.571$ Pp. Illastrated. Socielan Sclentarum Fennion, Helsingfors. (The Author.)


f.

d.


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7

8.

## ORIGINAL ARTIOLES.

## With plate i-J.

## Ethnography.

 Fleure: Winstanley: Slnger ; De Guérin. Dorrespondence on "Anthropology and our Oider Mistories." 71By H. J. Eleure and L. Wiastanley.

In a papar pablishud in Vov, XLYIII of the Jowrnal of the Royal Anthropologieal histitata (1918), the remurkable resemblances betwoen the distribatione of types of magalithn, to a ceetain extebt of types of anainut skulls, of aucient mitust, and of some specifed trpes of flode was worked out, and if was shown that these distribations wore curiously slimilar to that of a certaie physical type of man, a poiat alresdy arguod in a prevjous papec (Vol XLYI). It whe also argand that there was 200 ngech reacmblanee between those distribations and the plaess mentioned in the aarly pari of Brituth and Iriah leponiary hintaries to allow the latior to ba dirmiased at pure invention. The nuggestion war offored shast Anthsopology, Arehueology, sed Legeadary Blatory in their diferme waye proanve for us tracea of movementh of tuen in the parly Eroban Age, Ther papar has oniled forth nome letters whlob are of acientifige interess, and un accouns of these in gives hero by their authors' kiud prrmlesien.
 hoalnd mass ite the inland ut Gowa, In the previose pupar (Vol. XLVIII, Jowra, Ray. Awhr. Iaki, they were mantioned, with retorenoes, for Gerbs Island, nad pleces in Tripoli, Tonisis, and Algarin (bot shweys asar tha oons1), Dr. Sigger has fornd thas they make up the groeter part of the popalation of Gonov Theg aro, be asyb, a retomkntily undorm nod pure group of nediton haight, broad-abosted, daris, and wits
 in sasociate bis frieni Professor Zamente with hinaif in thoes obsurrations. Though
 wore all deaidedly doljahoceplaslog and quile digheas from the sindare type jond mentional. The aridence in, hat aids, tmperfoed that these Aoliolioceplials were the bailders of the Malteas monumepts, aud to may uveit bis place whare the shalln Tere foubd was is seeondary inolal. It would patarslly be bikwerrantable to clem that all megralitha were the work of one partioular stock, and oas netee steo that the skulle trom Beilah logg harowe are tok the most part very inlieaboeephalle.

Whit raferenon to the coannotloa betwoen Spsiu and the oprlior inhabitante of the British Isles, De. Stager netes that in the Book of Corne (awrly ninth oentury, Mareia), there nres, in addition to Irish slementa, purto traceable to both Mosarable and Boenan fnfuences. The Monarabieg elemnath coeld not lave oome with the Romatu inflounew, and so mant be of Coitie origis.

In in furnhar letter Dr. Singer beys that the edilor of Tacitme' Agricolat io She Loeb Lifisary, palatif to tha avoidunce by the Spinish trsiders of the atorms of the Bny of Blicay+ To do this they Inanched thanselver well to the vest io their trading voyagas; henoe the firts land thoy made was Ireland. To thil enase is perhopa due the diaplucement of our ifhands in the maps of the old geographers, sud Tacitus, if he misconcaiveil grograpby, was right etough about trade routea.

To thia Dr. Sioger silds that in the mape of Ptalamy the noareat point to Cape Finisterre (Galicis) by ane trip was Corawall or Ireland, wot why part of Gaul. He seyn Avealus, in the ffeh century, regsids Hybernia and Alhlan, hot Gallis, na the esatural goss of ssilors from Gaies and other parta of Iberia, and be tblnks it clear that in late Roman times thare was active intercourse by way of tride hetwenu Spsitu, Ireland, and Eaghand. Archmologieal avidonce simply purbes buok the thate
of tha opanings of this trade, and fis continued oxistenen fuarsanok the probabillty that the folklore of the ronte should have sarvived into logendary histofy.


 blallay

Colonal de Gafrin, of Le Mont Darant, Georneey, rends invaluable notos on the mogatithe of that island, He anye :-
"I bave lataly boen inallned to thluk that oar megailitha in Gnarusey may be mneh more reoant than they wire suppoated to the. Thle viev lha been fiepressed at me by the dienavery I made thls antomin of trsoes oit a ruilely eunlptured human flgure on the necond eaputane, tho brolkn eapstone, of the grans chamber of the slohmen of Dilues (Fig.1). The figure was sentpraced before if wan placed in poaition, at wo judige from the frat chat past of the denign in covared by the atono pillar lo the centro of the elvimbor which helpe to nuppoet thite aspotone. The relation shly of thil figare to afmiliar anthtoponorphio seulptaroe In Gparumy nod Pranes le obvjaue, fiad an theen latier, astordigg to Dotebelette and achara, date at farleat from late in the Nealifhie, at the verge of the menolithio period, the doteren of Dethas mate be of thia ape or yasagae. A copper haifaslaggar (Tig. 3) was foused in the great elinalies of chtindolamen by Me, Latds (1847), anfurimately not to itie etriginind taponit, but in nome mblinh thas bad been moved by the excovators. It lo, hewevere, uxsedy aimilar to one found in the Dolinea de Cpbut, commine d'Anglade, Giriede, and to some lound in rousel baro rown in Wiltulite (sae Abercromby, Branse Age Patiery). Ws have alac in the Lakie Mrinaum swo simall broare rigge (Tig. a) Laboliod 'Dêbas,' while ware ouldently fonsed in the dolisna, though Ma, Lakis dons
 nil show thast the dotmon was, at leash, in woo is the first ages of megta,
"Of the nime period, Five Bronse Aga, we have if small sopper oolt (bildie platte) formad at La Bougue du Pommier, and another iecently presented to the maseum by the helre of the Rev, J. Cachernalle, se long vione of Sark. It is of lurger kize thas the shove, reaconbllag Type 1, Fig. B0, pu 248, Déchelatter, Mancielle, Part I, but with a rather bronider cutting odgs and was found

 a vessairy.
in Little Bark in 1861. As you kuow, thase "laebes plattea' are ehiafly fuani In France aloag the western eanst from Spain to Normandy, and Déehaletto quotes them as avidence of trade batween Spain and the Norlh at the dawn of the Bromes Age. In my opinion another importsat loeal evidenges of thie intercoaras fo aur Statue Menlije at the Catel (Fig- 4), whiob, in apite of Déehelette's opinisn to the costrary, is quite as rule io type As way of thuse in South-Eastern Franee they I have eximiand. 1 conficeatly plane it as belouglag to the Firat Bronse Ayd.
"That of St. Martin'n (Grems. sey) is of courne vary mach tove recent, aud abowi that dhet ebll thene statuas symbolleed llugered on hares, as is did in Ligurit, long atter It had disappeared in Franoe and elsewhero.


 тідамп耳天, baxk,
"Wis have alao is Guemuey evilance of an even earlior sed bome truda widh Britiany is the numerous selta

 coures alogg the bosat. Thin trade we ean trace in Guensany, Jurnay, and Aldernay by uumarons objeod down to La


Fig. Tine III, tio whieh car fairly ngmesruas Iroo Age gravon in Guerney belong. Thie glase besds, for jastance, found of La Hougue da Oombe aro identional with those Eggred ly Déaluentich, whichy be rtaten, the Ganls troported from Nordium Italy. Gur corded rbsea of the anme purfod ure oxactiy similier to thoae of Prunce and sueth - enatorn Enghand, said to be oopiom in pottiong of Ttaling troake originals These all best out your nintomants of eacly vade iotarcourse.
"I have an fden that wo bave avidence of trade from England to the Coteatia mad our Selsoile in the shart sooketed celts of axes of the Fourth Bronze $\Delta \mathrm{g}$ w with a brond aurved autting adge foand both in Alderney and Jerney, and pobribly alao in Sark. We have, however, only the eutting ndge of one about $\frac{1}{2}$ ineh inep fromin the latter inlined to judge by. These sll differ from the straight Armorican type whlalo is also found in Jersey and Alderney.
＂I mide a study of our Bronse and Early Iroa Age remains lsst year，and eame to the conoluation that we had avidanee to prove man＇s existance in Gucrnsey from the neolithle perlod down to oig own times wishont say brealk，Trun，our objects of brouze are not as namerous as thobe of Alderney and Jersoy，hut they are individual finds of varied lypea and dates，wheress in Jersay the iedividana finds are fower than ours，the grater number of oljactar coming from threa or four ＂hoards，＇and as far wa I noold diseorer only the rwo last stagas of the Bronze Age are ropeoroatod，nnd the anrlier ages are absent．In the maseum of the Bocjét Jerriaise thern is a fine bronze dageer（potgnard a antemeen）of Halstatt I type， but eurionsly the lator Iron $\boldsymbol{A}_{\text {gea ace }}$ serdly reprepated，exoept by a faw amall abjerts，Gaulinh coins and fragmento of postery，$O$ It eourse tha ohine bessure is thair famoue gold torque，etther of the Foayth Bronae Age or Hallasath I．The Halistatt period is berily represented In Guernseg，anlonn wie can lientify the Roche－quj－bonene lracelets and jug－shapeif rase ne belouglige to the last stage of ich

I what lo tbonk the geatiemea wha hove pent thase valuable letters．

且，J．FLEUBE．

## dasomipions or platie I－J．

 Mer op Oiosas


| 4．Am＇M | Dis． | 80．2） | $\mathrm{dor}_{2}$ |  |
| :---: | :---: | :---: | :---: | :---: |
| 11．Ase ${ }^{\text {a }}$ ． | Da． | 184 | da | 40．7 |
| 4．Asm 18. | $0 \%$ | 817 61 | da | $42 \cdot 1$ |
|  | Dor | 81.81 | do | $12 \cdot 6$ |
| Oi，AEs is． | Da | 國－61 | da | $10 \cdot 1$ |
| 1．Agy | Dr | 54．7 | do． | 41 |
| E．Ago 46. | Dis |  | da | $13 \cdot 6$ |

British Now Guines：Paput，
Ohinmery．
The Beller in soul and soul－wubntance．By E．W，P．Chinsery，
In ourtain partio of Papsa I lave sheerval the existencen of a bollet 72
 the Indosenisos，dencribel by A．C．Krulfi（Encyalopadia of Religion and Ethes， VoL VHI 1914）．
 be akntehod from dafo lu liend，and lator the evidense ean be set ont is detall， together Nith in deteriptlon of the bebsuriour of spltitual being and their taffoence on pative lifec

The natives of the Norlisers Divielon speak of a＂thing withln＂that leaves the body at death and beoomes a ghoas．A quality，deacribed as the＂strenifith＂of the＂thing within，＂permaater the body，zind ite influence becomen attaglied to everytbing with whinh the boly it lo any way nasociatel．Water appears to remove the effeotes of asoocintion，for people，when dispoaing of Wate matter，isdemnify thenselves agninat moreary by throwing into a pool or stream of water the objeot thay ma longer require．

Ghosta attain statni mooarding to the influenee exerted by the soold during life． Metis thorofore，iverease their＂estrength＂in every possible wiy．Charmin and inhalations are onployed to nequtire the good qualfties of anlmale，inanimata objeets， und plants that，lliw mann，possess＂etrength＂and souls．I atn sliso informed that whee eatigg haman flesh a man oboonas some poetion of a vietim to refinforce a ve日kuese In that part of hia own body（Northern Division and Moreri，Eikori Distriot）．The people of the Cblrima Valley（Mount Albort Elward）and Kunfinafpa

Yalloy (Mount Chapman) phee the bodiee of their dead on platforms, and I wha told that while the eorpse is deasying, mea end women stand under the platform and absorb the tirtues of the dead man, by auncinting their bodien with his fat

A similar practige, 1 am foformed, existed at one time on the Kumusi River (Northers Division), bat thore the people made incisiona is the corpse to atd the disoharge of ftoils, and afterwaris dried it over smoking fitas.


I thlak It will be found, on investigatign, that the bellat oceary in msny parta of Papua, bui on the iketoh attached, I liaye mesoly lonsast those dintriots fa wbfol I pernonally bberrod ta existenos:- E. W. PRARSON CEINNERY.

Language, Oratory and Musio.

## Rose.

Oomparative "idiomatology." By Lisal.-Colonel B, A. Row. whether there for not room for a alesee of Idiomatology ${ }^{*}$ as a sider to Semantice. "Comparative rbatnrie" seem to foens too canal' siliention ou the objeetlve fagtors in idiom, whiok are no doubs very taportant and hilberto maili neglootod. "Openparative taiomatology" would embruoe beth the subjective and the objective fuctors in the apolution of grammar sad ayntra. Tho objesta of apeoch being to express thooght to others, to impsat information, to persumbe, placath, flatter avd charn, or to diciate, direct and dominate, to benal of foree athern to our will, the study of languages may throw mucb light on the mentality and psyobology of racea. What conld be more lispetialisi in yxprakaion than Cosart's "Vect, vidi, viei"? All the brusque, almest beatul, direotoess of the conquering race) gepech is coneentrated in those six sylinbles. Yet, one prost poiut out, they eronveg ae more in enhetsece than a langthy pliraes in which the ossontial factor would be politely suggeated. We may take is that in early speoch the mimple fuote werd asearted hil flie Roman

[^58]Why, with no intent to give ofterec, and that eoartler-llke oleboration if o development of civilisation, But this does not thyow mueh 1 gith of the history of lnggage, Beariug in mind the andoubtal importamee of the speaker's ralution to hill andionse, Wh may begin with a problem in phonetios.

In most modern languages-espocially in the Indo-Aryan-nocens hes displaced quantity, Yrolably, one may say, ancient Groek and Latin poetry was ohantad in a kjud of rocitative, fust as smoreil prose and verse tre reatied in the East to thls duy. In wanh recisation thare in titule scopo for emphasis. The compasa is essall, joft as it is in, Oriautal musis, slthough within that aompass oecar quester-tonen all but inualibla to : Weatere ear. May we noe take it, thes, that Romses speach, for ou exnmple, was uthared in a level thouptonoan ataceato, wiblate monent or ntrens, nud that smphealin conld only be exprensed is it lyy ultering the positiou of tha worla is a dentence-as in tho trite optinesm condinanipom famss parmatations?
 to exprese mataphor. But a nave deviee has leseome mach move important ploneteally. As the race adraneed-riay oue say that as lin capaaity for oujoymons and
 nad this sosbled emphasis to be expreanend lyy tones, no that it wna no longer
 to Italialag limest if wari-in spenking. Simultaneogaly eaoh worl dozoloped. nis. necenf of les own-anelites exapted-and Greale avolved a syatom of aegouts
 ned evestually Itollan nequired a mukical intosation, se that tho mosotone Lntie wha tomod fato shen mustanily mages doveloped of modera tongras. To take a liue of Oyld at vendom.-

## 

the powsla sere oll slazi with four ixamptians (tuelading a diphfhong), and is is only

 throwi fo nt mice out of seansion. Emplants nati ouly have boen indinated by
 Ladin proes the porition of the worin if of grost importsace, wbile in poatry is is
 "it's the axy that's falling."

[^59]
 quoted by Grove, Dietiendry if Masio, II (195d), p, zat. Bei this does not explata why tbe pitch wha thown on the short + fristend of on the $n$.

May wis not uay, then, spenking vers gaserall $\bar{\gamma}$, that primitive apecah wee dovotd of appeels to the listener's wasthetic sense? It oould only invite his attention to the spenker's principal "point" by the deviee of juggling with the poaition of wordid. Masio next enabled atress to he laid on words (and probably developed sceant in worda), thus sdding a paraussive abserm to apeeal.

The foteresting parallel of Chinese prosoly must steo be considerec. According to Arthur Weley, Chinese poets nsed conaclonsly betore the sixth century xbyme
 heen a frotor in Ita auplony, and that wat tone. But moril that apatary tone wen not an important element in Cblone prosody, and, it would sonia, the eariy pooth were as insemable th tone siffecte ha the Greoka wore to thymed endingar "Tbe " tope conacionanesa of Clijese poetry was no doubt of gralesi growth; the procesa " might he asmperent to the shange whioh took place in Latia poetry when it " became quantiative ingtond of accensual. But the asalogy le not complete. Rome - limperied a forsiga prosody, wharias the changes in Chinese poetry were apparently " Iue to the ayolution of the Inagange ifeelf "-ath evolotion jeasibly does to nomis estont to foreige sontach. ${ }^{\circ}$ Bus did Latin poetry siset by belog asoutitund and become quuntitativo? Sollar ppeaks of the "extrome irregulaylty" of the Sasarniat mestrent and so diapbs the quantity of syllables, tike the loflaxions of Worda, word wasetited down to the time of Sonian, \% yot the predominati faetor ip Latis voram, from the oerlient friowa to on, was quantity nat neoent. Yot wach was the irrogularity of the mefre that an old gramenaripa, Allifus Jortonatianus, is oftod as eyriog
 npeciaden of pure Sndirnlat varnes;

But languages offor sboudant data to the studant of racial payohology and mentalify. We Baglish are a downijght people, and no we niy i "Yos, plasun," and "No, thatk you"; irlerene the German anye ulaply, "Eidet" and "Dande." Yet what could be more avasive then tha deseriptiont "She's no hettor that ahe should
 besauss wn ame equally eefphemistie shens quite trivial thinge, noftening a refusal by
 umse from the Easi.

The Urela lenguage is derived from neveral sourceac Grammatically is is as desoesdanit of Banakrth, best, likn mast tanders Aryen virnanslisri, is hat beoome
 the parahology of the peoplon who use it to uxpress thelr thought, nad protably
 Aryno invaderi. A few senteases which illasirnte this tung be analyaed t-
1.-(i) Main-ne hahai (I sald); (ii) Wain-ne Aiyä hat (I have done) t (III) mainne wita mâta (hà ( I had nutruek him). The ingtinet of the langange lo to avold dirsot personal stadament and subatitute for it the ngentive easo with a passive, as that (i) Enenns "by me ['twas] haviog-been-anid," a me dietum, not dixi; (ii) is
 "to him having beenestriak it whe."

[^60]2. Thit procens is parted still further in the constraction mujato mârä-gay (lite, to me it had been beates), whelk is, as it were, a more passive veraion of the striet passive suain märā-gayä ( I we beatea), but not quite se sebmisaive as the
 equiraleat to "I ate stiok, ""
 af the Lathin setuon ond de me (it's done for with me), and in (lie Greek of pea slverat drats whilh doan not menc fately "I driak no wine," hat "I get na wina to drink."

These construetlons befag ont the fatalistle lireaponsiblisty whiah is a trait of the Orientel, and thla trale la momhasisail le the cee and development of the cansala which have no perallel In'any Europese langage. The root-vert la sased to indicate what could ouly be axpreased is Ragliab by u panpive, as in phassed ( $\omega$ be eaught,
 ceoma to be adtiver In Urda the active phasiax (to mentangin) is in secoendary derivative from the pasiive, phasnd, and the pasaive fo nower banfoged wilh the aetive na la muah Ebgligh varba on "eatch," "atok," "nets," eto. Chonative in, moreover, direet and indireoten ned ob in Urdu we have a ansondary geasal as in pina (to drink), pilwäna (to give to drink), and pilvăna (to nnuse to drink), Mainsnn
 pilerlyd, "I got [somaone elso] to give it him," But the tanaal is abo osed whth mineh notlety to ladionte compataion or dereas, ased in no other langange would such a sentened as mudi-se duthhat karodyd-gaye (I wha eompolled to pas
 suggonf the faed of durees withoat any expleit anention of the faot liaelf. It in slem oharaaterintie of a rather helpleas fatalinm that wbite tredu lans a word milnin (is tume op, to be found), If has goben biat I lavei aver been able to digoover for " to fude" A nervant mill nay noNin milia (it in bet foumd, or to be found), but yoa thasail say "fied its" for milland meens "to join." The nuarest you ean got to the than to to nay "milna dhahige" (it musi ture ong or lie lound), or ordar him to tanke a search for th. The Isdias habje of darelistout, whereby an order is pasaed
 of the double sat of zatashar. $A$ siasilar tonncraction is toned is Turkibl, Whloh had one verb for "to mako olothea," a primary causal for geteing elothen made by a intlor, nad a seensedary one for gotelig pomeone slae to get s tailay to muke them,

To retarn to the Weat-what nould be more dellghtuly frmapopaible than the Iriab oook's explanation $\boldsymbol{q}^{\text {" }}$ 'The onke sat down on me "-reegrded by Miss Dorothes Conyen ?

## Trameparifion used to amprens Metapior.

 Greak-the reader may consuli Moaro's Homeric Granmer-and the lnseparable terbe in Germani. The pribelple, spparenty, was that if you said "I stand under,"
 But thit root-idea wan uat oomblatantly or palversally marriol oub. Nevertheless, it will be found at wark in Homerie Greek, at leant, in Latis (ef. inverive, irdibere, ata.), German and Erglist, spasmosliesily. Oas also soes ita faflaenen iu the formstion of nouns, and in notting is the degradntion of modern Benglish more appareot
 and man. The Eaglinh of the construetive perind followed the Teutanio model

[^61]and profixed the proponitiou to the substantive, the compound being gesersily ased in a secondary or mataphorienl seane."

But a beautiful example of the nase of transposition to exprass metaplor ocenrs in the Ramanet langusgel. The normal poition of the adjective postpones it to the noun qualited by it. This nevor beams io have been tha rale in German of in Latis. In Freneh the rula in compantively moderts, $t$ Hy is we have such marked sbedee of manaing an :-

Cn hanwe oriste (s sad mas), triste homma (a wrotoh).
En homme Aabily (B olevar man), Aabile honame (one who is ton oloyer), and we evein flad sueh sbatenest in je wiflair pas ce qu'on appollo pricikiment wil jouns homme, wivis j'tais wh honme jewne. $\ddagger$

Bo, too, we find in Spanish :-
Un bues houlbre $=a$ goed fellow ; hambre buena $=$ a wortly ( 7 kind) mas.



Un polere aninal ma poor antmal ; Aomind poled = a poopers \&
Dut this is ant the moat intornatigg polac, walab is "How did the pule stise " In st lanat throe ocuntries ${ }^{\text {" }} \mathrm{It}$ Wha not inheritad with Latin of from the German tonguee. Apparently by a nybebrobous impulec all ibroe lespagee ndopted If about the seine thas, ponilhly th the devied was prosorved in thair foll-memories.|

The aname rulo obtaline in Itallau.
且. A. BOSE $_{4}$

## Great Britain: Witohoraft,

Murray,

 organisasion, which was abetrsly iodependeat of the malghbourfog dlatiote. The Oblat or supreme Elend whe the divibe man, the lacsrata Gos), konwu to the Charintian reconderi an "the "Dopllt" Bolow hian la riak wers tho oflisens, one to
 out of the ment of the onnjoggation for apecinal pierpostes.

The offies might be gitber a man or a wornn, whose daties ware to arrange for mestiogs, to sand ont notions, to Keep the recont of sill work down ly the
 commanity, sed to prenunt new memibers. This parson spideatly nobed slao nay likely eonyert, sod silhar antered Lato egegotiations himealf or reporied to the CDief, who then took setion as opportunity ierred. At the loes weekly meetiogs the affien took cominnad In the abseace of tie Chlef. As the Grewd Assembles or Sabbaths the offioers wera honils of thair awn covens, and though balled "devile,"

[^62]or "spirits," were reogalised as baing of inferior tatak to the Chlef. At the Salibatbe thare were, hawever, differant ranky of officess; the prioclpal officer, esually a man, acted se secretsery aad entered the witoles' roports in his book; and if he were a priest of ordeined minater, be coudueted pari of the religious service. In the
 seted as princligal oflioat teasme the "Devil" ou the denth of the previous Oplet,

The datios of the offieer aro sontinually meatoned fir the triale of the witabes. Ratebese da Canalrea, tried in 1567, anid : "Elle a val sa Sabbat val Notalíe
 " manque dy ad troquer as Sabhat, Am Amak the North Derwiek witelies tried ta 1590, there were several offioers, of whom Jolan Fian wan the ablal: "Robert *Grierton boing named, they all man hirdiegirdie and Tord angry ! for it was pron" minad he nhoald be nalleil +Bobert the Controller, aliar Roh tha Rowar,' for " expriming of his nase. John Fian Was ever nearest to the Devil, at his lefi
 ${ }^{H}$ their Regiatar, and that there was not ose math auffored to coube to the Devil's " raedinge hat only ha. [Fisn himaelf atated] tbat it the genemi mestinge of tbose ${ }^{14}$ witules, he was alwayn presient; shat le way ofork to atl shede that were in ${ }^{14}$ nubjeotien to the Devil's aerriop, bouring the name of witihes; that olway be ${ }^{14}$ did talan their csthe for thetr true servioo to the Davl; and that he wrote for tibm " suah matiere as the Devil still plensed to command hia," ${ }^{*} \dagger$ Rlianbeth Southerna, otherringe known ne old Mother Demifice, phe of the Larcoebire witohen triud in
 Warlock," Robert Griove of Landos, triet in IG49, "Wis hroughe to is aenteselon of ${ }^{\prime \prime}$ his beigg the Denifs Offier in thist somitey for waroligy all Sacous vesente to ${ }^{4}$ empei to the ninelinge, whirg, find whensoever the Deril required. The Deril a gave bim that obnage, to be ble OMear to ware on to mpatiene! (as was sald " before) in whiah elarge he oontinued for the apace of elghteen yeari ar marg. "l

The evtlanch ooneorning Loobel shyyrie, of Eorfat, tribd ls 1661, is too longt to quote, but it is claar that the ableil as the ofligens. The telaln of the Aeldanrne witchen it 1662 are full of dotall; Joobel Gowdie nayn plainly, "Johan Young ia
 " Illd drive the plougb." Janet Breadhold, of the snme dovin an Ieolei Gowdie,
 " What thru Offers; bat John Xoung in Mobentown, in now Offioer to my Covas. "Whan I first anmon thare, ibn Daril called them all by thair names on the book; " and my lanaband than rolled them at the door. Wheu we had Grons Mnetings, "Walter Ledy is Tenick, my babbasi, and Alexaoder Elder, sext to tho Devil, " were Bulorst and when there wonld be femaer, I wyebll, the deseaned Jann
 the Somernet with trials of 1664 Aune Bibhop was clearty the officer. ${ }^{* *}$ Jolus Stawart, of Paitloy, tricd in 1678, gave avidenot that Beasle Welr "wat Officor to " thefr soraral meatingar. Bessle Weir did intimate io hims, thas thare was asmeoting ${ }^{4}$ to be at hig bouse the uaxt dny + A.nd that the Devil under the abapa of a black " twan, Margaret Jocksos, Margocy Cruige, and the aaid Bessie Weir, were to be

[^63]" preseant. And that Bessle Welr regulred the Declarant to be there, which be "promlaed." "

There was one drity whitoli was delogated to a particular individnal, who seoms to lave hesu aiften the prinelpal aflleer; this was the nanangomest, geserally the lediligg, of the daveers. As pace seema to lasere been an esaential in the dance, the leader wha neccasarily astive and young. At Noth Berwiele "John Fing, matifed, lod the ring." At Aberdean, in 1596, "thou the mald Thomas Leyas wan foremoat and led " the ring, and dang the enall Kathrias Mivehell, becaties she epoiled your dance, ${ }^{4}$ and num not so fast aboac as the reat. . . . In the which tance, thoo Heler "Eriser wha the phig Jeadar, pext Thomas Leyle," The Rov, Gidem Peamae, of Crighton, spaken of by the Devil as "Mf. Gidnan, my shaplain," Wes "ondiuerily la
 sames te be the rame pereon se the ${ }^{4}$ watlock wha formerly bad benn ndmitted to " the miniatrie in the pronbytarian times, and now he turnes a preader uader the " deefll. This vilisn wan assisfigg to Satan in this action [givigg the morameot] " and in preschiog,"

Tbe coveus were gempsaies of nquale of witches, both mou add womin, not becencarlly alt from one vilage, thengh belonging to one dintiotr Eacit coven was rulod by as oflour who war under the sammand of tha Clitel or Devil. The metahers of the eoven were spparently bound to artend the wenkly meeting! and it was fley who were inarueted to and wha proctised magieal arta, oad whe perforemil all the rites and oeremonles of the sult. The ofler momberi of the religion ationded the
 matter of eouss. Thala relee of the orysolation is tiorne out by the copmou beljet供modern Frumer: "If ast de croynoce génírale qu'il fant tan nowdre fise de porciert


 "s sucensifroment par rixg d'audenuetl" "s

The "fised mimber" snoug the witches of Grent Britala neame to heve haen thitreea, twalye wisabes and the offeezi Thes setnal numbers ase be sesertained only when the foll renord of a trial le aritiablef Por when nevern witches in one disiries art brogght to trial at sbe same tiac they will always be found to be mmaber of a cores, and if the reast it complate the other mombers of the coven will be impliented, or at laset mentioned.
 She weot with acertain Thom Retd, who wat elearly the offleer, ${ }^{4}$ to the kitl-and, " where he forbade has to speak or fear for anytblog abe beard or anw ; and whan 4f they had gone one litsle plece torward shen esw tweive persons-eight women and "four woo. The mas were olad in geatlemeste olotblog, asd the womens had all ${ }^{4}$ plaide aboint themi and were very semaly like to see; noil Thom wai with thom." ${ }^{\text {" }}$ " The witebes of St. Osyth in Esesex, fried in 1582 , were thirteen io number, $\dagger \dagger$ At Ghe meeting of the witches at the Sitk of Narth Berwiek is 1890, ning witohel asood togesher in one comprany, and the rent," to the numbee of thirly persons, in

[^64]sa other company" 4 in othar worls, there wera thirty-nine person, of thred eovens, preseut," In the Aburdeen trinls of 1596 and 1597 the names of nixty-four witohst oonur; of these soven are mentioned as beibg known to the oikers bat appareatly
 haviog been exeonted shertly before; thos, counting Helen Penaie, there were fifty-twa witches, or four eovens $\dagger$ The groat trial of the Lancaslaire witehos in
 little Joset Howat seld, "There was there present with the lavil bunide barself, whom ${ }^{\text {a }}$ he callod the pretty deneen, the sald Tanbel Shyrrie, Mary Rynd, Helan Alexinder. ${ }^{H}$ Inobel Dorward, and etherr whose nemee she dlid not know, to the namber of "thirtegi of nall. ${ }^{4}$ \& Isobel Gowdies of Auldoarieg, ahows that thore were aeveral
 " tina that our Coven mol, we, and an other Coven, werd dancing at the Hill of " Farleath, anil before that we wan beyond the Meiklo-bura; and the other Coven "boing at the Downio hills, wi went beaide thens. [She sall toar othors male a * ollarm), Wa, whit the Devil, were only at the makiog of Its bat all tho multitude " of all out Cavent got notime of it at the nest meeting, all my own Coven got "notlon of is very shortly." Whou Janes Brondhord whe ndmitted lato the notlaty thers wern thipty-alne peracal, or three oovens, proseat in the Kirk of Nolra. 5 The Someriot witalien in 1664 aumbered bwenty-Eix, ur two dovene. ${ }^{* *}$ At Niwenatio-agr Tyne, in 1673, Ause Ambirong gave avidance that at the moetlug af "tho Rideling
 knew, "and thre mart, whose namea ahe knowes not." At anothor monelng "at "Rideling Milan leldg-ead ahe see then auld Aune Varster, Aunn Dryden, and Lusn "Thampaon, and fen more maknawne to her " I and at a large meotlag at Alleniford, where in griat ruany wifolan were present, "avary toirteen of thea had a Hivell with " them in vundry shapens." $\dagger+$
M. A. MORRAY,

## ReviEws.

Archmology in Ohtle.
Publienaiones del Neseo de Sinalogia y Antropotogta de Chils. Num. 1, 1916,

Los Aborigener de Arien. By Max thle. 1917.
Some interiating pumphlats have been recelved from Df, Max Thile desoribiog recest vasemplase oft the worth const of Chife. In 1918 the Gaverament founded o Manenm of Etbnolagy sail Ambropology in Shatlayo, and nigaind Dr. Thle (then In Lime) of difrector, not only at the masone bat of expmilition to colleot materlel. At thiat be worked hard satil 1916, wheil his consted was caneslled, the Goverament rebaining hik valaable sollentione, ibolnding 400 anpient skulls abd fifty mummen. In the ftrst of thesn publications P. Martin Gasinde gives an aocount of tho musetum, nidressed oblefly to the Chiless people in argoment for the seed of such
 antity. He mentioss the Bandbook to the Etheographiaal Collootions: Brifien Muscom, "whioh will make It mas opon his byes and remain emared at the "eduontional valus of this preciops collsetion," thernby showing bimself more

[^65]enlightetied than certain British M.P.s. He also emphasises the nood of shviag whet is possible of Arancanian ethaology, rapldly disappearing ander modent influences.

There follow two papers on the palieolithle station at Taltal, one by Dr. Whle, the other by Dr. Aurolimo Oyarzas, for some time honorary director of she ruseum. Tho Intter ban illuntrationa, and it alao appotred in the second Pan-American ScientiBe Congrass Procontinga, Soetion L. Taltsl is a manall port, and Sr. At Capdeville has the eredit of diseovering and excavating in grant ahell-heas thare, with a large number of phippod and also of flaked atons implemants of very early typer (see Pig. 1). A portion of shese was presentect inv 1915 to Dr. Oymusus, whe sorted them, shawing that thay raprasant imglements of thag various palanitibia phases from Chollen onwardb, alchowgh not of tha hesi spasimans. Dr. Thlo went to Taltal in May, 1916, and njent thres waeks, parily is verifying Sn Capdoville's obearvacions, partly in exanyating, inclading making a treneh 18 motrep lang by 2 matres wide in the southern alope of the Morro Colorado, the aite of Sp, Oapderille'n work. He has anent photographat of specimms and naelel.

Briolly, be gives the following rasuli, The roeky hill, a poniamle, blout a
 The eselens flahisg folls liyed on the mare shaltand pars. The uatual whell. hasy is about 40 mestras is dibmoter, with depth to the roek of 8,10 metred at mosk. Poirr layers enald be Alathgulalient ; (1) The lowest, of grey unling with some palmolithle fuplemanta, had a dopth varytole froun 0.15 motres to 140 metrys (g) A yellow layer of fiee neal lifer fliour,


MWres dian This
Tita L- widh many fish-boper and seme thelte and paliealithle sbjeets of bous. This in as then iouthern and oesizal jart of the atte. ( ( ) A brownibh layar of frogmenta of

 duloid form, sod sernpors), tboagh some Nurs on the rook where layers (1) and (2) ward thla. (d) The sarlace layer, oblefly of aarb, whith tomalas of fiak and ghells, eovers the entire site. This lant lajer sontalied many nerow pelota, snd thare are nome in the next layar below. Blagk siler was aned for the lmplements the the lower layers, If is arident that suee of thems were re-worked ai a later period.

No mastion is made of any traces of bariale. Thers were bo retnation of jothery throaghout, axeept if few superticial fragmenta, noe did Dr. Uhlo find moy implement that could be oslled pollahed, although some pebblet nud somio loggith 'atonen prod an mullees bed become swoosh wifh wemf. Dr. Whle had proviousy investigated a site noar Constitucion (in the south), whare objecte of palaolishic shandeter oecurred in the lower lavela, whilst otherg, mora amorphous, took their place above. As on ancient sites in Australia, there is at Taleal an apparate mixture of sariy types which in Darope are mat separately sto auder diverae oenditions. The mrovpoints oni top Dr , Thle proved hadd coma frome a great plain west of the Pamps of Taltal, where, at an alttude of 2,000 metres, be found remains of horse-dhop-shaped alashering walls and thousasids of fragineate o? quatts and pebbles hrought there te
be woiked. Fisbaboses abowed sbat tha workern hacl come from the coast. Finoly flaked arrow-puinta of jusper, chaloedony, chert and quarts sre foubil in profusion nlogg the coast of Chile, algo of ibn Atlantio eosast of Patagonia and ea far north ns the Wilinmette Riyer in Oregon, ahowing the axtesided traffic of the noolithic folk, their leve of pretty atoubs and artiskic wurk,

In Los Aborigende de Arica, Dn Thla doscrilies hin expavasions in oemeseriea Heor thate port, weme of then comparstively recent with painted vaees, spuatting munumins, textiles and ather thingn of no adraniced oulture. Ou the enst nide of the Mayro of Arica, the herials were of duflerant type and more anolenh, the badias in extended positian wifh emall furnalalings. From their cundition thay sean to have been keft soise timg before belng mummifed, Sometimen atne or both arnus had been teplaced by stifficial obes, or there woald be a sham hond. Oue arm of mil sudals lad been prepared separately sad placed with the body. Many fous were lacking or avan ia miole limb, aloo vertobre ind ribs, i great variaty of mothods was used is tike propastlon! usually tha entrails ware axtruotel, the other organ destroyod, the alrall opesed, and the hanime remaved and replaeal by a lump of psolls. Some bodies wero dried naturnlly, whilat othars show aiges of frat After Allag the onvities with bandfula of reedk, strnw bruabes, and buman hair, the akin whe mpa up eomently, More remarkahle was suothar methed. Thas tendy wap In a redining posiston, entimily covered with a layar of yollowith olay about 1 cm sblek, wbich gava if a petrifial appearnnen, tip a reamblanan to the redintig figurie on Etrinesn mereophegh. It was $30 z$ beil of the save alay, made of and mixod with a rodilah Hqgoid and sa bard an ivelk
 a. Kind of petting. They were Iram 132 to 100 uta. in lieight, nad their skulla wera
 meudiblen were wide and thiok, the destal areben very anriow, bot a sigro of antien

 bodien, and thes liad aprotis of vegetable Aliren or akion. Both sexed wore the bair shork, Tha dey allosale was fovournbie to prearvetion and specimeus ramein of sittion of two forms, one with a hoollth, tha other thale of a bladdar with mail
 varietios, is stiek with in leather projection to support in tliges. This Dr. Uhle also
 combs more like a brush, sesil also ln Patagonin. The flnt toothed comba appeared In the Tiabusasoo oultare, In some of the Arica barlala thens were patated pebblew tike those of Mos d'Asill, wish lines of reil, yellew, nat blach. Sones manaulee held atone (mplemanta in thelr right hands. Thees were a fow thloga avidently lirought down from i more peltivated people in the highinads Skelatone 170 em. high, had narrow dollohocoplanilo akulls, with frontal and ocecipital deformintion like that of Proto-Nhnea. During tha tibe of these oumsteries bows begas to take the plaee of the spear-thrower; one, os mates loge and reciangaine to saction, is tho oflest yet found on this uanst. The people llved near springe on the banks of rivers, unt far
 large harpoons, atil had toute mads af reed mass, with in reed anil similar to those used by the Uroa of the Desaguadera.

Dr. Whle has always been so barafol obeerver und hia long expericoce in excavatious maked him a safe guide on his own gronad, bat whon he tried to square other men'a theoties with his faota, he may stamble Hnving heen told that it is imposaible that Man reaoled Amerion befort the zoolitaie period, he trion to bring down bis primillve folk as late as possible. Idle hends in Lima demosnded daten for
his ablleations there, and he whe tempod to. skotch out periods for Pera on the prineiple that 500 years is the averngo durition of anay phase of eirilisation. We knaw far too 4 ulele yet of suclent Peru for any iystam of actual datas to be pearible. No one san see those immense urififial hills on the plaln of Lima, eotirely made of हmall briaks, also the lecrecing of high rouky mouncaing to the summite, without resognising tha leagth of thme negasary for such developments. A. C. BRETON,

## Centra Asia: The Turks.

dzaplioka.
The Twat of Ceniral Aria in Fiviary and at the Present Duy: An 76 Material relating to the Early Turhs and the presexz Turhs of' Central Avia. By M. A. Csaplielka. $22 \times 14 \mathrm{~mm}_{7}$ Pp. 242. 15s, aeti Oxford ; The Clatoadon Prent. 1918.

In thit simaly sud anoful boolr, Misn Cesptieks, alveady well knowu by hor works ae the atinology of Slberha, bxamines from the polat of view of antiropology ous of the German projecta to seoure ar wrahl-wide dominion, which was wrecked by the suocenter of oir smies in Menmpotamia and Palentine. This was the


 succeeded the resulta would have been parity ooonomionl, partly politioal . Fims, to devalop tho xeporrees of Cobstra! Atha atd to provide raw materiala fer German
 hy mannolig the anfoty of tho Iodian frontior tirough Mosopoiamla, Perala, and

 to the Ottoman Empley os Io was canstlutal totote the wef, and aumbering same sight or tive milliona, patut be sharply dialigulahed from the Kantera Turke, Lahabting Torkastan and Coutral Aula at fer ha Afongolin neal the Chinese barlec, it propite bambering anme ten millions. Tho former, nxeept for thisir Osaanly langiagn, ahoald
 may be ounuilured to be a remanat of thin old Torkio moe originally known an theog-os, which had paned throggh varioyn changes in Central Aaia. Then eshnology
 nians adupted by Minn Oripliaka aro fully Justifed by the avidease collectal Brow noursen tancomesble to mont Euglish anthropologists. Tha valide of thin worl if eahanend by an elaborste bibliography embradng the Rusuine material. This will be todiapanable to all furthar studente of tbe ethrology of Contral Asia.

W, CROOKR.

## India.

Kays.
The Astromomical Observaloriet of Jati Singh. By G. B. Kayo. Gulcatar: Superintendent Gorarament Printing, 1918, Price, rupees 11-12, 77 or 23 r .

Jui Singh was born late in the seveataenth onatary, and died In 1743, He distinguished himaelf not only as is statesman, and to some extent as a soldier, but ${ }^{4} \mathrm{He}$ conecired and airriod out iv acheme of acientifig pateareh fhat is still a
 ${ }^{4}$ erected sw . + . ${ }^{4}$ moaumenta that liradlate a durk pariod of Indian History." Fond of estronomical work in bis gouth, he stadied it diligensly. "Ho found the ${ }^{4}$ astronomion tablea in nese defertive, said wet himnelf the tank of preparing new " onnas... [He] took bvery mesus to srature sureess. He . . . studied
"Hinda, Muslim, and European methods imparthally. He mollented natconomiend
" books and had eertain of them trabslated ; he orgaised a regular staft of workers
" and pons some of them in foraign countries to collect infornation; he favited
" certain Kidopeasa . . . 20 Jaipur ; be huilt a larga abservalory at Delhi
4 + , it and afterwards he twilt other obeerystories at Jaipur, Djjain, Beaarea,
" asd Madhard." The present hook on those observatoriea, undertaken primarily is a nour report for the Arcbaological Survey of Indin, lias boen made malnly denariptive: Healing eleewbere with Hindu batronomy To general, the aathor givea hase marely is susmary of it, mal "in so far se it is relatod to Jui Singh's labours."

At firat Jni Singh'm instroment were of motal-aftrolaben, most of thean benntiful axamples of Drientat craftemanehify of which ammerous excallent photofrophe ore given-bat later, judglag that his hress fustrunents ware faulty bechuse of thair mobility and thair mmall nion, les disearled these and boilt fnatruments of masony, varging in slee ap to 90 feat is belght. By the consuruedou of thase great lageramonts, whdele "gare to-day among the primelpal "blghts' of Duld,
 for alse and immoblity in an lustrament lacrane the diffentiten is alaring or improvigg is. While some of the issirumess he bult of masoury are oommen to many obeorvatories, them of then are peenliac to the observatertor of Jat Alagh, sud probably are due, at Joabt in part, to bla own Isgansity, whieli, bowavec, "was


 of thene varlous fuatruments are glvee. Pollowing upotit the deneriptions of the tndividnal tasirumenta sire guneral doserlpsions of the neveral obeorvitorlef, chiofly in their binoriced and astryanaland sepaneis, foguther with regorts upos and auggeationa ns to the work at peseant required fot thafr preservalion. At Ujfolia, whioh "is
 meefe are sill folling lato raln. Tradition making Djisin the eantra of atronomical
 " should It have a modara obtervotory, taar it slaghd be the ceatre of Hiedu " astronomical teanling , . . the position . $\rightarrow$, to anpozd with the [Hinda] " traditional poikfor of sero longitude."

An latervating hat very brief aspount of Indian satrourwy and is basea up to the tine of Jat Bingh it given in Chapiar XII ("Hatorimal Pernpietive"), whlpe in Chaptars XIII noid XIV the evolation of his inatrumanto and the coovlusione to be drann an hetween his wark and tant of bily predocosuons and anatemporarian are brielly dasif with. As to the raina of the woele sessmplished by him, the suthor any: 4 " Kin avowed object wae the restifiontlon of the oslandar, tha prediation of ealipeee, " and so on-wock whioh entalif a great danal of labour, and gonerally stowe no " reamarkable adhisvement . . . has soleme of astrotataical work wat a notable " ose, and hie obeorvatorien atill form monmeata of a remarkoble pernonality."

Jat Slagh'e instruments, boch those of reetal and thoge of manaty, were at times need for astrological parpotes, and some of them are marked with graduationy intended erpedally for suek purposes. Ote of the Appenitiees (B) is renverneil "with suei sstrologionil mailars as are exkibited by the instrumenta." D, unother Appebdix of othar than purely stronomleal foterest, relates to technicni terms sad
 Hindu aptronomy, Muslim astronitisy, and aatrology. The book has an axoollent index, nad is provided with a flee secies of photogravure illmutrations. W. L. H.



## ORIGINAL ARTICLES.

## With Plate K.

## West Indies.

Fewkes.
A Oarved Wooden Object from Santo Domingo. $B_{y} d_{+}$Watter 78
reokea.
On a raoest viait to St. Loals, Misaurf, the salfor olseryed on exhibit in the solleetlon of the Mlatour Blatorleal Suelety, a carved wooden imaget from the island Santo Domingo which neemed to bins of mare than paming interots. It was

Santo Domisgo Inol.
 of the Minsouri Mintorionl Sooiety Museum, July 17, 1878.

> "A Zemsi or Sante Doveinge Ldel.
"In the yeary 1467-0S I pasaed some, mouthe In the Wabt failes, mora psetioularly the Windwurd Bahamas and Sastr Doniloga. At thit date the noazatien of the last-nkmed tind servely hem conteraplated and the laterlor of the island ramaiaed, as. Iodoed, it remsing to thin foy for that mater, almust a very leria jamagnilid, Ao there are tio ronle werthy the rimine ois the taluad, tbere are oo whonled vobleles; the inhablentis ride apon frilh for sle mast part, and only in the
 toryents, is somunurication between oue pate of the blabil and ibn athor sfterpited

 or molooseg to sly along the coast, by sum.
" Aa Asuerican miniog oompany, fornipd for the pirpose of utiliging the rich deposter of gold and oopper in the faterior provinoe ot Le Vogit Wise oompalleit to
 mention these facte to account for the lengits of tima far which the lidel lay andisturbed
"Shortly before my departure from the labsod, I way hformed at the disoavery of this idol, or 'semi,' na is used to he lecaned by the nation whom Columbun foand upon the island. It whin fataid at the lamermont exproraity of b large eave (nt which thore are a umone in the island) by as inisepid uxplorer of free-thinking proelivitioa whose elariosity had been excited by the supssatitiour stories ourront is ruforence to thene eaverios, which nons of then natives sonld be indiond to penetate. It bore avary evidence of baring hese sadistarbed for untold ygars. In its immadiate vialalsy were fonod fragrsesta of similar inuges, bat made ont of atone hunsead of wond ; these others bad armbied awny [rie] by tbe netion of the sir + tbis particular idol heing made out of wood of the bigamn-rites, tidigenons to thin island, had withatood thes notion of the ationsplere butter than the friable sandelone ont of which the ethern were formed.

The dincoverer asked too large a pries for hia 'find' for my meang, and I reluctantly relinguiahed the jdea of betoming ita owner. Bat it shauoed that I had

[^66]made the uequalptance nt a leailing German marchant, Mr. Bruns, of Roth, Brupe畨 Cou, at San Eetlpe de Puerto Plata, whe Ilesired to prasent me with some token of his regard, and hearing of my ansiaty to obtain the 'gemi,' he wans himesif to the dlecoverer amil harguined for it, aod preseated it to me. Tho ehildrea of the diseoverar had reanavail costanis finhes' seeth, which had heen insarted in fite moush,
 orgail appertaining to it whan originslly Hiacovered. In other respecta it in exacily an when dincovered. The thenty of certatn German favsate to whom I nubmitted It was io the effeat that shit sagger-shaped eavity where the atomede thould be wae destined to revelve the offering of the devoteen, bnid offering nemong the turocions Carlas offen banalstigg of tha silil wame and pulpitating hand of a buman vietim,* an ationg tha Astecm,
"Irving utaift, however, that tha Dominican aboriginea were raparted by the stivebinles of the first expselition under Calimbus to have presented only frulta or foowere bofore thaip idols.
"It will be oberrvad that the idel is avidently fotended to nimulate something approachlag a hapanc form, extended ipon Ite beok, whes seen from above; bat when lrooked at from the side, If wie sles seenaingly Lusauded to reprezent nome repille of the lizard apeetan, with which those tidinads atriousd, the arme beiog threwn forwand and sat of joiet, as its werb, The areatent myseery in how thie hard wool sould be anved withoist the ald of metala, as it in gonerally odmittod thas it mast lisefi beens the abarpeet nes abelt might perhuph by mosthe of oontinued applian Hen, bave auffeod, bat sayone whd will try to arye Jigonm-vits will have a
 bost modera odiged treils.
 oovary of Amarion In 1492, I have na doabt, aor to the prosems fulabimants of Snnto Dasinga worsligy or isnsufacture idole of eny kind. Ae if wan obtained from the orginal diseoverer, there woild veam th lid no yalld reanon for not sosepting it ne the pembahle uldenet of puopliatory worihilp or adoration by tha sutivas of Ban Douningro."

It somna wall to supplemant thats datariptise wide Blasiratlons wud a kew additional notw. The abjent is carved oet of oies of the bandert of blese tropieal
 as it by astion of the elemums. Its laogh from top of the hand the selon of the


It witl he butbed thast, like many othar varred woadeu abjects, if was foupd in a eaver, and atention shonld bo balled to the foot that nome of the Antilesas sre suid to have lived in ueves or parformed thisir onversenien la these sealoded locstitios. Spactuese of dola have finise colleoted in the naves of Cabo, Banto Donaingo, Rorto Rice, and the Lesser Antilles; but anres itre pot the only loenlitios where they have been found. It may lie polnted ont that the sbollet of a nave is well adepted to preerrve wandet objinaty,

Dorss, ventral, and latersl views of the specimen are ahows it fle apoompenjing plate (Pisis K). Thas maker eridontly Inlanded to ropreaent a lumang figure, the veetral alde (Fig. e) of whose body is miodified fito a shallow howl while the odnvex deraal aurfuce (F/g. $D$ ) is marked by four chevron-slinged alavations resambling

[^67]rits. The arms are natemial bayoul the fady behlod the head, while both legs ane appended to the hipa on the opposite sile and zo flexed that the lruee joint of the right and lofe lega are heni in opposite directian, The flexare of the lega fa diffienit to axplain ualess the howlalike depression is suppuased le les simates on the ventral surfuoe.

Tlee npper arma bear eugrayed reprosantations of armileda aud Insiged hasde anairaling the lags. These cerrespond to the lesime tescribed by bistoriana and athaclogints ne tian salwat shese appeudiges. The fingers are hent ibwerd ow the palum of the linils while the rees bere flexed on the moles of the foel in it clanracteriaile why, io whisit attempo bas often been sallad in dermiptions of axamples of Antillens ast.

Thres views of the bosd, two of whleh show profilea, iudieate itsas the faee is turveil in tho same difectas an the uoncsvity of the aldioman. The wop of tha linad las what appeurs tor resembla a eap, iudinated by ougrayod linem bilaterally
 nide. It in probahle that in these eye soekdst, now ampty, were formerly inseried egetballs male of mintal, shell, br stoas, the stachmients of whioh are still viaitle. Tho moath, noat, and ehin have hrman rather than onimal eontounch, tho last



The smas ore attencied fo the back of the head and do net istond ahnve the erown. The nide viewn of thene sppendegen ( $e$, d) shurw figgern, more socurately

 of his bead fo the maoger isdicated, It we ruppone tbe ennervity io he the ventent regrien af shee haig, On then othere hasi, if then nonesvity lodieater the flomal




The setachmente of loes to the trunk and tbe dimntion ins which the foneen afe
 tbe poeftiob of the face be in folas of the voutat regine, and the bipn alssolhed to the doraal region, the onnestrity of the boly would likewied be ventral and the pibe darsal. The only ebjection to thle theory of prientetion is that the Antillenne
 abacis in thie apselmas.

It will be entien that the donal alde of the hip joist (Fig. B) if roigh, at if nementhog bad bent broken or eat off' at the place. As sbe supporta of reats would rateratly be athansad is this position it is poandile lias legn formerly exinted here and have been romapved.

## Intehmertation.

This objent so olotely retamblen the apectmen fit the Britiah Musesm, which Mr. Joyoe" hae ideutifed an is ment, thas thare is little doubs that the nee of both was the bame. A superficial examination of the various other objecta that have heen ideutified as $d$ whes (aeats) capnos fail to convince ous thes Weat Inlian objeots of widely differest forms aed probable need hadi been referred to by arebeologints under thig group. The author lias bnen led to re-examias spacimens known to him to have ampe from the West Indies in arder better to elassify then grogp, and to daterming the proper tidentification of the earved wooder object we are considerivg.
 Yol. XXXVII, Jris Dee, 1907.

On compariton of plotograples of the Missouri specimen snil Mry, Joyce's Tlastrations and deseription of that in the British Mussum, the antbor believes that while both have genpral Mkenssex, there are minor differenves of eaticieas Imtarents to merit the reprintigg of the only kwawn deacription of the former, eepecially as these twa are the only reprumentativen of a lype of which the British Museum objest is the other known metaber yei dearibed. Mr, Joyce's references io the Britith Masesum spechen ane quated satire - -
"These fos only one wooles sent if the Britich Mesomm hat that, an old and
 aleo belonged to the Claristy Oollection, having been preaesied in 1876 by Captain Melfort Cnmpholl. An old Lebel pastod in the middle of the feat abel dating to a peslod aeterior, reade, Found in a cave at Bt, Dowingo, presanted by General S. 'Jmbert, Dominiena Army.' The dooor appplied the information that the spacimen which wes givon to hils by General Inibert wes 'found at Isabella, thirty milen from - Porto Piata, St. Domingo, In a anya lababited by Indlear in formar times.'
"Cut from shlid, howvy, herd trown wood. Thaphalls figire of it wan lying

 they had held inlayt the month is open and the lower jaw very promluast: the ears
 shasp rellef rome from the polnt of the none over and behtud the oarn ; the chin mesth oa the Sots whiel are aboched with tbr nsiln downwnila; rila and naval are shown is ralinef, and slao the male organif the back is hollowed out to form a mat; cha leupe sre parted, and the righe bent uborply as the knees bo that the foot belevaind in the alry below saak kaee it a tranovernf grouve ondireling the legg roparnantimg a knoe bendage, that on the left bronder thas that on the right: thene grooven werne. ovidently, not ialaid, thee bley arn filled with angraved braamunt ; the ankle jolots are shown in rellel, the frint ann shore and broad, aud the tonn bent over. Total leogth, 780 mas, Britiab Mamum, Chainey Colleotias, 975s,"

The above dosiription of the British Manoum apeclmen applier equally well in geacral to that in the Misemari Hiatarical Sectety leaving no doubt that the two belong to the same sype. There In an aloee similarity hetwnee them and abjecta colled dubee by the Antilosen, aud Joyce's idestifoation of the Brisali Masoun apoeimen bar much in ita faroas. As thay muat be regarded sa vory aborrant npeoimens of sents, it in well to diberse tbeir relation to otber known forme of dukos previonsly desceibed from the Weat Indies.

Among objects that have been referied to na nente therie mhy bo mentloned at
 ofleriage ated in riter : (8) mortan or gribding abjeeta.

In thele stuplest form wa find tdola or aemia neated an stoola which are genernily identified as duhes. Two of thane zemi stoola une known-oes figared by M. Piaurt, the peher by the autborit The tormer is made of barnt day aod has seated upon it 6 elay repiresentation of ta idol, The latter, now in the Dnited States Nastional Musoum, it made of wood, on which two wooden idole are ssated, $\ddagger$ and differs from the ferat-mentioned not only in shape but alno in material. This stool bas a rertices back whieh is not representet is elay images. There is every probability that the seata mpon whish these idole kit or squat man be ldentifiod as wami atools.

Still furthar modifiestions of stools, but withost idols icated upon ibem, almo

[^68]pecur in var/ous collections, Severnl of these, innue of wood, are large enough to serve us sante for men, asiI there is anfliority from barly Spanish reoorls that a encique ued simallar seats what be functionel ne n semi. The membere of the embessy went by Columbis bat bis first voyage, to a villuge in Cuha, Were soninated by the natives, $n$ on the socount reads, to seats wish fascastic samal denoraionprobathly beeause thay wore regarded as catiques of zemis. The dead were ssid to have hees sented on similar stools, the doed baing alao rogarded se nemil in thetr anceator worrhily.

There are two well-kuown typen ot sami stoole destitute of the seated idole, one of whlah bas in liesd obeved on the uargin of the horisogtal part, the ather on top of the vertical portion, It the first type the head of se animal is sit in relied on the middin of sha antarior rim between the legn, and in the asoond the hand, and often the nhoulders and urms, are ant on the upright. Bofl types may bave
 sestin are sigroifishat. The deoorations on them nuggest the St. Lauls speolman, bet they bave nelther is form nor the sion mapuinite for as easigiue apat. Is may well have been that the sonoavislen Fhich diey bbne with our speeimen served for the

 blopealate on soede. The objeote raferred to arp mogeted ne toar logh, and are tometimen wibout irmmentation, bat oftion the earying on them are donvens
 en rions of the anqesvities,

The conelualou arrived it by compleative ztadlar is that the woodan object to whileb fas paper is devotel-and the same may sppily alae to that doseribed by Joyee-whe west aelther in a sent ner martar, alabeugh of has some polets of


J. WALTER EEWKES.

Obituary.

## Reith.

Gustav Magrnus Retzius. By A. Koilh, M, D. dietinguished Honorary Jellown of than Royal Autbropologioal tastitate- Hrofesoor Gentay Retalus. He was boen in stackholmi lo 1829, ble your lin whish hin femoun fether, Andore Retaina, isitisted the mestiod of deveribing the shape of skulle and bends in the torma whisb thele brasdth heara to their lengths Anders Retains, who heid the alair of Anatomy in the Caruline Medico-oliturgianl of Stonkbolo, died in teso; sixtesn yeare later bis wos nuceseded to his ohaif, sud dovoten his life and the ample mastry, whith a syapathetie and fornumbe baarriage placed at bit sitsposat, to eontinalay the linee of fuvestigations openal up by hbo father, math bla denth, ou the 21st of July, 1919, at the ripe age of 77. It miny be said of him that be did weure to unrich tha Iiterature of Ploysical Antlunpology, Asatomy, and Plyyiology than any other man of his time His numarons monggraphas and athases deserve to be eniled prinooly, whother we conslder the fluith and magnificence of their illastration, thelr fall and aeourato record of obsorration, of than exactness of the methodn whinh were amployed is their prodvetion.

Hin first tank, undertakes in 1864, what he wha only 22 year of age, wen to coilect, edit, and publish ble fatber's contributione to Anthropology. We will pot stop to enumerate bis nuzerous sinor pastributions to the archoology of Swedon, nor hla papers dealing with the skulle and hrains of Lapps and Finine, bat pass to the atlas whioh be prblished in 1900, entitled Cravia Succiea Andiqua, in which
all the prabistirie akalls of Sveden are deseribol anil ilelineatel-a work which is fumementsl for the propor understanding of the prehistorin paese of Britnin, Two yoara latet, in isonjanction with Protesaor Karl First, he iasasil a quarto rolume, Andsropolegid Suecrica, the stabdard work on the paynical charneters of the fohabltants of Swedea. Ten yeara ago fiee Royal Anthmpologieal 1natitute iarited Blm to give the Haxley Lechare, whioh be devoted to a consideration of the "Bo-nvlleil Narih European Reee of Mankind." Is thent lackige lise expresaed hif Penrn thant the

 *vulutinary machine Tatrolaced listo Earope by our molare indmtrial farm of plyy life wan beariug liardly on the bypu of mpa wblal lind flourinhed In SeaibAlsavia end Britaitio in past tianen, and toale a gloany view of the futiore of she Nordid mees. Hed lid not tear an sudverat fate tor sha Norile typo in the betblafele, bat the verdinat of the Embantriat workhiop wes otulnons. But whatever may be the fate of tie Nomble rueg, ne follow of the Inntitate who lund thin fortune to listen to thin Haxloy Lectire of 1909 usu forget tia gradolonises, swartary, and modasy of the lectures, bor the plesknat momerles which Lie wils and be left with tio ntulingee.

Many of his renonelises Wurn itireered b) alasidating the reintionsuly of mankitud to apos wall of one race of menkjud to anotior. In this category eome his Das Measchenhirn, pubDishod in two wolumas in 1896, his oxcomination of the meroseopic strusture of the oortex of the brain, his investigations of the apermatoxos of auchropoid apan, the restroverainn of the opper extremity of the tibib, and fisey other contaibutions. His obief remarehas relate to pure anatomy, partiondorly to the floer struature of the internal eut, of the nerve 日ystem, and of the organs of seese. Io that field his pablicutions represent permasut enstributions to onr knowledge of the usimal and heman body.
A. KEITH

Yoruba : Folklore,
The Divination of Ifa (A Fragment). By, I. Wyndham.
If whs the Mastenger af she Gods, ind is consulted by the Yorube 60 on all subjecte,

His prieats (ealleal Bubaliwa) pioil ennuilarnly by diviantion, which they parform with sand on a circular board, or with a absorn cellad Orpitle,

Olepelle sonsiatt of sight pipoen of bark on a saring. Theae elghs are arranged in fours, thene:-


 differest names ind roensiagh.

The sixpenu ghmas are ;-


When Okpollo is thrown on the ground and thee two foems are ldentieal the reathant is called:-

| Ofbe Mej (i.e., Twa Ogles) | Eguta Maj! |
| :---: | :---: |
| Ojekn Maji | Ossa Meji |
| Imuri Meji | Ernite Mejl |
| Edi Meji | Etaral Meji |
| Obára Maji | Ologhon Maji |
| Olararan Meji | Elkka Meji |
| Reahuo Meji | Owhe Moji, or |
| Avoria Meji | Offun Maji |

These are callel the Sixtebn Mestengers of Ifa,
Tha clasoce, Jiowayer, of the four ob the Bahalawo's left agreeling with that on
 whit Onbe ob the right urn esilled f Ogber Yeku, Ogbe Wuri, Ogba Di, Mo, Similarly with the other Mespengaris of 1 Ha , These combinationss are galled the ohlldren of the Masezager who appeara as the right, Thus, Oghe Yeka is a child of Ogbe; Oynku Loyben in a child of Oyeka.

From this it will he sees that Oapella can show 956 sombinatiout
Procidert:-A man comes to a Bahaliawa to enasult Ifs, Bu plapen a gift of cowries (to whied be had whimpered thia redis) before the Snlialawo. The lation thkes Olpello ind pluces it on the nuwries. Ho theo nay, "You, Okpelle, know "what this mas sald to the ofowgim. Now soll nes" Thes lie lift Okpelle and lay: If mis of the flour. From the mamengot or olilid which appears the Habalawo



 elines is poor aint beeds maneyy RdI Maji appuars, and the Babulawe tolle his olinnt to bring of dog, a fowls, tenil some oowtien and paimiool. The man aplite the tog and the fowlf prie puim oil nud cmovies janide theta, and rakne them to Kabin. The Bulstawe promeniblly taken the butk of the eowrien for himaelf.

The sppaersace of Oghe Meji pronisees long Mfes but a gone nent be broughe.
 goat.

Edi Meji-A* above,
Otaire Moji-A sansibne of a ouekn, 2 bens, and 150 oowrien is needed to purily after menstration.

Ŕcolian MejL-A shegont mid 2 bean to vare a headscho.
Aworia Meji-4 conkn and B00 sowtion to bring bibont the denth of one'g enomy.

Egutas Maji-A ram (Iarge) and 1,200 cowrieg to enre a had bollynche.
Onan Meji,-Boteler't meat and \& pigeons to drive awhy witcheraft.
Erefto Mojil-2 platous, 2 coolsk, aed B00 cawriea to get children.
Eturah Moju-Oba large gown t sherp, anil 300 cowries to cure aye disease +
Ologhon Mejli-Sacrifice 4 suails atal 4 pigeobs if one aurpecte someose wishos to poizou ama.

Elka Moji-4 heas, oil, and 700 eawried for earcmele.
Offen Moji--It ebllidrea keop on dyiug, sacrifice 16 auslls, 16 rats, 16 fithes, and 1,600 cowrice, and the following ebtildren will live.

Osse Mejl.-8 amails, 8 pigeous, and 800 eowries qor ehilitren.
Oghe Yeka,-(a) If a man has no money, be must bring d pigeons, 2 shillings, and noap. The Bubalawo mixes leavea (ewe-ine) with the somp at a dharm, and the man mani mes it for a bath,
 be better.

Ogbe Worl-(a) If a man in siek, he reast offer Bc, and s sheep. Otherwise, ne will die.
(b) If a man pieds money, he masi bring thend and 6 pigeons aud buy nonpr The Buhalawo gats eme aji naci puts then oit the soap with the pigeon'i blood. The thread is pint jaelda the sump. The mase then wahhes.
(o) If a man lias sommithed a esione, he mast bring 7 eseka and 3 siz. The Babalawo killis the coake, and sake\# the AAs. for bimwlf. He takee the and of Ofbe Wor from the Ifa bourd and jurs some no enets eock's breast, with 260 cowrica. FJye al the oncks are then given to Bation and tien ofter 2 are takon to a place whare turae roads moni. Then elither a gecensary winesif wIII not appear in court on the nerased will be found not gally.
(d) If two mea wsat the sesee woosol, and Ogle Wori sppearn (when ous of them conaulth Ifu), the Babelawo akse for 4 heis and in lia-goat. The woman then bavamas the elieat's wife. Bebs gate tho Lous and the goat's blood; the Thbulawra, the gose.
J. WYNDHAM,

## REVIEWS.

## Anthropology.

 Maroli, 1915.
 the editor, Dre A Hedlloka, hat a valuable paper on Auchropometry, indis-
 foicuate and to syitamatise the metbode und, and giring in oarofolly ansouted und illustratod tranelasion of the Repari of than Speenal Consmiesion at the Monaco Congrenn* in Aprit, 1906, with the whale of the many pointi in skull masareanas fully defised.

Nis Britalh representative war araibahlo for that Comimbenon, bot at the
 Commigsigu lisd faur Britiah asarog the 1 wenty-four ropramentalives of elght ceantiles, and Dr. W, I. H. Duakrooth whe one of the thren resurders. The tranalation of tbe roport of thin necond vomininston is here given, wad consista of aiu Introdactios, the general prinecples and detalled delinitions of tha bolily measuremente upproyed loy the Commiesion and the Congreas, with abeme farther robilutions. Dr. Hrallifes ndde : "The task undertaken if net yot finiebed; but what lisa boen " done furnighes a sound nueleus for further developmeac." Whea an intertational assoniation of anthropologiste it formed (an antilind at the Confereces beld in London,t June 4, 1912, sfter the (8tb Tnternational Congresa of Amerieasiste), it is to bo hoped that a permaneut Anthropomatrie Board may be instivted so deal wish all questioas reepecting metheds and instrumsuts.

Dr. G. G. MaoCurly followa with fartber ramarks on the Conferenee at the Royal Anthropalogioal Institate, anil a teraslation of the cirealar lester onnt out to rathorologinia some monsba ago by wambers of the Eeale a'Anthropologis of Paris, in which shay suggested the founding of a permanent Ioterastional Institute

[^69][ 153 ]
of Antimpology loe the allied mations, with a aentraf offioe, He thiaky that a propurntory songeens might be oulled to conaldor tho important questious of hodget, personuel, ote. But fir the present ansettel state of the workl, private and indivitual afforts at emoperation, and correspoodenco on the tminy subljeets of internat, would bo more practiesl than formal gatherlaga whiab noat manoy, The
 war, muob ae I Polltital organlantion, varging neoording to paces mosl tradition; the
 the wer; pergletenge and trineformatione of national aftagoutemis; labgers and


The lest-numed is of peonilisr importapoles. The Ireadfol comblnations to be sesn to the sonthrwustern Daitenl Stater, resultang from the meotiug of Anglo-
 nurest in that hamag repion. Mongrals, of no conabing, they ske sanily led lato misebief. Whas would haypen in Austuslin if theis were so colour bur P

The Xomonal Remeardi Comeil, organient in 1916 at the paquest of Presldent Whkon, by lae Nnticonl Acadecny of Scelencon, alac bai a plase here, wich ta Artialen and sbitteen Difinions, the lant helog that of Anthropology and Paydablogy. The Council is so bold an auntal manting io Waahington in $A$ pril. At the mansing of the Amerlean Asmolatian for the Advandenans of Solenee, held at Bnatimare, Deoember 1918, thare ware disonealaps and resolutione In Sention E, afterwaris nombalial ia a Repari to the Prouidant ot the Reaparoli Comed, imgod by F, Bont, A. M. Toweer, and Ales Hrelleka. Tha should bu read by all thase who are inie-

 oobdage It lif nor meroly a matior of emprot mgamering af homes, of sailentiag detaife of tiagmethg enstans. At preanh mant of the Workern apectaileo on the Itree with which thay hapgen to be liroughe in coutact und an little begond their
 tlows nolven lielp tbem. Angile fanda for the propor traluleg if youg man inf ailtable uapaeity ura the firat bieansity.

Amonget other prticlen in thie number lo oue hy R. B. Bean and Whanar Bakef,


 $55 d$ begro potnen wary wellixed for the ntudy, The anthorf preant tablas of detalied data on thun sphans that socld tie cosnidersid uormad, said conelode that the upleati of the negro if amaller thun that of sha whlis.

Lavie R. Salivan, of the Amerlong Mine日tis, of Netnril History, was able to mestare the "Sunar" United Trius (Plilippines), In Joly 1918, at Coney Inland. They bed beeu pravibunly dascribed by Dr. R. M. Riggal in the Rrifish Medical Jouraal of 1911, heing iwenty-two months old at the tine of hia oxamisution. At tan yoers old they whe lright intalligent littie fellows, well eduested, and apole goal Begglish. The photograph shows them reell clothed. The left twin is righthasdeil ansl the riglit twin left-linnded. They are of mixed Malayrtype.

The sase nuthor if represented to a votion of his paper publinbed by the Aimertean Museam, 1918, ou "Baclal Types in she Philippian Islands." This is a replew of the dati whide lave gradoally soconunlated during the last thirty yeara, revalting in the couclasion that "she halk of the pepolation is foploded undar thifee " ruchal types: (I) Malay with distinesly Mongolold affinities, oomprising about " nibu-tenths of the total ; (2) Iudobetian, ness is polas of numbert, fith Mongolohl
" aflantitee lat in lesser degree than the Malay type; and (3) Negrito with Negroid "affinitias," Bat native Mexieana were dapartad there contiononaly daring the eunturies of the Spanibl ocenpation of Mexieo, so that there must be some Mesicnn atruin. The constant tralfis 10 and fro was one of the remarkable featares of the Spanish rula.
A. C. BEETON.

## Oriental Studies.

Bulletin of the Sokoal of Oriental Shalies. 151 pp, Published by the School of Oriental Btedles, Lardon Institatien, Elanbary Cirous, E.C. 2, 1918. Prioe 6s.

The Bulletin of the Setaol of Orienal Studiar onataius nis important eumeeratlou abd dearription of the Indo-Aryan sud Darden verusenlarr by Sir George Griersob, which will be woloomed on rupplging is gap lu the dencription of Indisis languages nanaed by the iecomplate "Lingulate Survey." Tha same rember coetalin in tranklation by Dy, L. D. Bameti of Shadakshari Davar's Jesorfipton of Paralise In the Sabarasankara-vilash, o Canarest poem of the saventpeutb centary, and a disousalose of Bengnil senade by Mr. J. D. Auderson. Chinè if repreanted by "Notas on the Neatorian Moumment at Slanfu," by Dr, Gilen, and trusalations trons the wothes of $\mathrm{Po}-\mathrm{Chif} \mathrm{H}_{4}$ a sinth rentary post and prean writer. Alrion bua iwo papeni, "Hasse Wit and Wialom," by MG. J. Withers Gill, and Swahll pretry by Mias Wernan.

Then ouly hatorinal nontribasion is an exempt by. Prof. Margolionth from the
 in the wath nointary.

Tha Buffetir conbaine s fow revfowi and alae an alabancy of the fanione French Sinalograe, M, Blonand Clianunash, Who diod on the 27th Jabuary, 1918.

BLDNTIY H. BAY.

## PROCEEDINOS OF SOCIETLES.

## Anthropology.

British Absoolation.
Eighty-secenth Annwal Mnetisg of the Britiah drrodiation for the
 Proceadisigs of Section $H$ (Anthropoiogy).

The Antlopopolagiend Section of the Brilish Astioniation met at the Munteipnt Callege, Boarnemouth, from Septembar Dih to 13th, muder the Prenilency of Prof. Arthar Kelld, F,B.S.

Prot. Keild'e nddroas wes entitled "The Differetilation of Monkiml Bato Raone, ${ }^{\text {, }}$ and eossiatol in me applicetion of the Thnory of Hormenes to explala Racial Charnelerietage [To be pulbithod in foll in Rep, Bril. Arsoce]

## ETHNOLOGY AND PHYSICAL ANTHROPOLOGT,

Harolb Piaks.-The Finaic Prablem-The maders inhubitanta of Fiminad coptain both Nordie and Mongololif elements, but the balance of svidever tande to ubow that the langonge and tradition are derived from fhe Aplatio element. $\boldsymbol{\Lambda}$ frebls examisation of the archueologiesl evidenos neems to show that the flret wavn of these Mongoloid people arrived in the Balto regian on the retreas of the Ies Sheet, nad were respolasible for the Maglemose oulturs, which developed later inte thast kwown an East Scandinavian or Aretics. Towards the clome of the Neolithlo Ags the Nordie people arrived to Denmerk from the Ressian Stoppes, and advinced into Seanin and Westergotlend, driving hefore thems the Maglemose-Aretie folk, who retrented to the north, where they aurviye s8 Lappa. Purher Mongoloid tribes ware wall eatablisked at the juostion of the Oka and the Volga early to the Bromire Age. In the midde
of that period they pere oceapylag the mangins of the Finnish lakes, and at the anme time Nordion from Swelen were ocenpying the Baltic sbaboard. In the fifth eentary m.d. the Nordice took to thè florde aud to pinucy, and there wad a gaveral meverent to the satuth and west ${ }_{+}$Meanwhile the Mongoloid triben peenpied the whole of Pialanil, than Baltic proxintes, and Eass Prousin. When, about A.b. 1000, the period of piracy ababsh, fresh Nondlo immigrants antived fram Sweden, who were the anostors of the present Yorde popalation of Finland,

Misa M. A. Canploik.-Histary and Ethnology in Cestral deala-Oit exiating olatuifioation for Ensiern Europe and Narth and Central Asla, is hased an hiscorical rather than ethnologienl dalu. In the "Ural-Altaie" groap are Inolnded five " mete "Finnia, Turkie, Tuyguie, Samoyedic, anil Mongollo-who are said to be Jugulatieally sllke but, otherwise, to form neporite races. But the "Mongolle rase" canast be abows to form a distinet group in the same senve as the other foom and its
 uboritical udopitiue of the bintory of the Jioghis Khan period. Eitunologienlly tha Mangols form a bridgn betwean the Tuagns and the Turks, uriginating in a misture of thate two tanes on the stappes of Mongolis.

Assither mislunding bren "Tatsan," is simply a name of Tanguale opigin for a elace which nt the time of Ingeis Khan belongod to the same confodonery ae dild the Monges slan.

 the vian lhat Melasediau, Polyustau, und Australold nevicy aro repreneated in the nstive popalations of Ameriba.

1'ropeston H, J. Flevae-A Camparinan of an Smaient and a Suraving Type of Man-Geonrapliceal stady of abthropologionl lypon in modern populstions
 eapoolally Combe Capeite and glosely relataid examples,
 (Hat Moulint and Blilaneñar!) and thom Swediah magalthla gravea nbow a grudiog from Combn Capelle charsetern to Noodlo. Moderi represantativon of these charactari bave bean fond In Romililiaind, Abyusiain, and Egypt, Sardiofin, Tras-og-Montee, Partagnl, Nortb Iudy, the Rhene Valloy, Antrib, Rumania, Rushia, nad India, About twmiy-foit dasee have been stadied in than vielbity of Plynlymen and in remoter perte of S.W. Wales, stl men of pite loeal dereent, There is ilos a itrongt preseimptan that wa bave s persisteas type. Mobt of sliet lndividana notised in Wales lave the hair rather atrsight with low of hital ludex aud prominanve of the $\pi j g o m a t i o n$. But tare individuals with marked prognathism have tha hait very marig, and vageet a "negroid charactet." The latter eliansoter is emphanizand by Giuffida-Raggerí in the name "Euratrican type."
F. G. Parsona-The Plysinat Chavanteritties of the Modirn Briten,-The suthor luvited disposelon as to the moost valiable and prnetical dats is determining the characferintios of the nodern inhahitants of the Britibl Iaten. The folloring were suggesiel ha espertally tiguiffeant ia tiew of an moelyele of the data st prebent available:-The cranial and eephatio index, attention belog salled to the fact that the ladex of the Britial Isles ts the lawest in. Turope; the orhital tuinex and tbe orbital height, the Latter beling valuable na a means of diarriminsting besween the Nordio sad Mediverranesin types; the stanial heighto avd facial fuliues; standandized orthogonal projeetions of the soomae of skulls ; stature and hia quiok renction to eovironment; eye colour and the pressice of brown pigment in hair ubd skin oolour; and the fonkares, espocially the sontour of the nowe.
I. H. Dudizy Buxvos,-The Autaropology of Cypres,-From hend mnagurements of the living it would oppesr that the population of the villages investigated falla inter twi groups whioh omanot as yot, however, be differentisted with certainty into the Alpine and Meditermanean types. An examinatiou of a short seriee of ancient skulla affords avidenee that the ansieat types correapood with the moders.
 munitiees of woolly-bnired people discopered It reseat years in the momatain regions of New Gainen smo diatinetly shorten thai these of tha beah lowlands, whe in turn differ physically from the coastal poople. It will be foued on fortber investigation that a Nagrito-Papisa alewens exleta aho in the tribes of the Owen Stanley Rengo, all of whioh appear phyeionlly to be the renula of a misture betwean carller stocks of eliorb and tall Jightyollow and darkekinned peoplea.

## $\triangle R C E A O L O G Y$.

B. B. Manktr,-Reant Arabealogical Discovarien in the Chatanel Itlands(1) La Catts do St. Brolades - A atting 18 Poot deep bas been drives from outelde the eatraice along the W, wall of the nave. Inmednenly beyond the mitrnese there existed in Mositecian simes a sloping plafform, where Alnt-laupping operations were corried on. Alove 500 pieces, maging is quallig from mers wnhahup walune to highly finiabed implements, bave alrenily bean uneartibed hers. In the vielinity is a rieh rodeat bod, whieli preaenta miene peotiliar fenbaron

 wbieh is Astrutiun ragorions at presect ounfusd to more Bouthera wateri ; and teetb, bobel, and Eumarona pleeen of ander helonglag to Chrvida, whiab Dt, Andrown ia as preseat dimpeed to briog lato dose relatiois widh Ceress Etueriarium and Carous
 oosurreano fo a Jorsay nayd
T. W. M. Gulans-Nores on the Dhoonery of a Human Figere Senlptored
 bumbn figure on the ubiler nurfhee of the assond capstoan of tho eentral elamber of the đulanen of Dolias, Querosey, shown as affigity to tho snthmpomorpiaic figures of the Iate neolithic and amolithie perfode of the valloys of tho Sofise and Marae and ot suuth-ensters Pranne. Its presease in tha central sbamber, the first structure to be erboted, proves the late date of the dolmon. The worthip of the divinity repesenented by the Giguy existed for a vary long priod in Guaruser, ops if the twa exiating ptatun-menhirs in the faland being prohially of the Irou Ages.
J. L. Mrres-Exturations in Cyprwe in 1918,-(1) In a Brome Aga neeropolin at Lapatios on the north conal, at mquence of tombe wan obtained oovarion the "Early" and "Middin" Poriods of the Bronxe Age. The "Middie" period bogan not earlier than the Twalfih Dyansty of Eegpic.
(2) The late Bronze Age necropolir at Bokromi, near Famagtasta, yieldal a goed dend of information as to the history of an Agean eolocy on thip site-
(9) Tho well-known "megalithic" manment newr Eakomi, popularly called "St. Catharina's Prison," was shown to belang to the historie necropolis of Salamis, and probably to ita Greeo-Roman stage.
(i) The "Bamboula" mound it the outskirte of Larnaos was abown to consist of late Greek and Gremo-Roman stratifed debrie, ovariging is fortification wnll and other remaias of the Greeco-Phoestiant eity of Kitions. The earliest rematus here go Dank ouly to the bogianing of the Early Iron Age.
(5) A sanctuary sile at Levkenikn giedded a series of Cypriote nenlpturn beghaing in the saventh or eighth century n,0. The figares were thasa of male votarios carying varions amblean of a loasi deity aventually idnaified with the Groek Apollo,
(6) The Byzantine site at Jampoush of the aof hh coast newr Iapathee yighded only ovidonee of wholenaln guarrying if the older aetilemontn during the Midile Agob,

Stanlimy Casios:-Sume Balkan Aafiqsiting foupd during the periad 1915-1919. -A number of aocidantal diegavarien waro made daring the war in she conse of nilitury apernatious In Macrilonis, bit owing to the eivounstanees thorongh syaremutie inventigations were nat possible. A number of figde were mado in prohistoris nanunds, ineladiag inuiset, paithla-pulishod mud palated vases, samong the latter being osamples ot "red on white" Fare similar to that foned is Tboesaly. Tupported warea nad evilonan of foreign intames wers prmants.

The balance of aridnpec shaved that the noty efvillantion of Mnoedonia belonged to the Narth rathar than the South.

A number of Romas iftes were identified mull nomber of leolated diesoverien of the olnensionl period ware nesule,
H. K'askin.-Fopme Disegurry of an Cimpormded Type of Cipewlar Eitethasork

 and is coullacoos the whole why ronad without gap for oskenaed. There is peither equer ons haslde iltel, nor nentral ramued,

 sipport then concilasion thas li is of Bronze Age date.

Thin marthwark difera from a typloal dles-barrow in not lieving oithor loner dileh
 only accondarily, if at all, for evpuldhril asee.
 wushom bank of the silusery of tha nivera Avan and Stour wer the prebleorfa (earthworb) northern defonces of an Imyortank nostimment nommaniligg the water ways from the Solent ant Chesous to the binderlanits af Wilis, Dowet aud Somereat and their peohistorie angeroarles, ©o,

The townahip or setslemens prannsad a part just witbin the entrary whith an adropolls, sed las afforleil proot of irnde with ancient Gail more than swo milfenia ago. Abong the many mul ourims finds obtaiond wus a boord uf sobio thomasds of coins-a fev orly beling Boman abd datiog from the Repolilio nearly to the Roman tiepartore foom Britaiti. The grat luik wha Britisb abi Guelish in type. It is agegened that thia port in to be ifenttion with that named Bolvelansia mentisaed is the Rovenna lista. This woald beronnulse with the late Slir Jolan Rhywh nelection of the Hyer Stoir nef then boandery Jlom belwixt the Brythou sail Goidel.

Arekieologieal Intientigatione in Multa--Report of the Cowmiliese--Thil year's work bus conslasted of exonentions at Glar Dalam, in that patt of the eave floor neparating Lhe Trench deseribod in the Report of the Brtlish Ansociution of 1916, and Traneli Na. II, dasaribed in the report publisbed in the Journal of the Roynd Aaddropologicali Institute of 1917. Potsherde beloagieg to various spocles, nome being of a very fins pattern, and \& lew Implementa were met with; andmat bonee there, ise utunt, foand in grat profislon. Hemas ramalas onourred at a lower lovel than thes in which the Nemiderthalold molars were found in 1917.

Later wark enanintol in the digglug of thrue trenoheen In Trench I potaherds of variona epachs were foand in profusion. Animal bases were also fouud in tha greatest abundince, and erideuce of masa'r worl hue been traced to a rather low
level. In Treseh II potsherds were ont ao commene as in Trepeh $I$, hat aninal remains were found in equal abinslanes. Anongat the important fisd in this treach are sevaral apecimens and many fragments of a murine shatl bulanging is a species \#hish te at prweent wery isto in Mnitese waters, not to say extiect. Trenab III is sull befig oxeavatod. It shaws some groupa of stalagmites of vaiona efiees. A. eoathof of stalagmitle formation bas pronerved mavy of the notmal runasing in their smitomies position.
 opased a disenasian on "The Poet-Tortingy Geology of the Distrint [of Baurnumenoth] ${ }^{4}$ with special reference to the Filas Emplensente in them, ${ }^{4}$ his onmmunieation being illustrited by a abliectlou of 首lut implementa lobt for the aseasian.

## GTHNOGRAPHY

 tribe, Zat are caraparailively reosut limilgrinta from the Mysore constry. Adsounta
 eadogumani groape and axagonoes alank. The typiasl Badage linalet consiata of

 taisal ritos. Balaga Cull Grumpm ato fedemieal leio Nads anil asoojated with other eadogamons gropps of the Bodagn commaity and sther Bill trilien for porgones of
 deecrlted to detail.

The Badage somameity exblhits eneos of at fene two migrations ( 0 ) the varly Badugat mal the Hoynsla omiquese, (b) thè Ummathe couguest and Liaghyat Inllesuan. Asanelintat misna are apparaidy intarsediate.
E. W, Panhor Cttonnmer-Stanneord aid Goldande in Papua,-Tbe objeota




 forabesd retreste to a polet me the taok of the hend nod the lisode aro croneed oa the ntommoh. Near the suanth of the Ciriwe river oranemeated potiery, sud as Reing (Colliogwood Bay) ornamonted pottery obidjan objects, pastes ind oetus sholly mith [nelaef desigan have been foumL. On the 8,Be ensenh near the old Gihars (Milse
 stona sitting planes have lanen disnoversed.

The eridence of the stoan abjeots in Papna shows that ti was risited nt samn time by stone-using people Tho diflered in muny reppecta froa the presest inhabitants,
 asore bad some interest in is igold-beuring ovantry:

## RELLIGION.

A. M. Hocart,-Death Ritual in Eddyztone Joland of the Solomont.-The Eddyntono Iotnadars axpone than bodief of their dead lo the eabryonis positlon. Aftor the funeral four mea catch the soul on a dracsena leat and a diog is arier to secure the sonl's services in divination, The widow may he strangles, but monit
 wear any finery, bor eat of food cooked in the houses. On the fourti day a big fasat is held, st whleh a loug prayar is recited whiah enables the sond later on to go to the laod of the lead; but in the meantime it goea to wait in the bave at the
top of the ligbest bill. After tell or twelve daye the aksil ia fetahed nway sad pats in the nen to bleach. The next event ia a masil foast malled "Bathing." On the sightsemth dev the nkull is put into the skull-honse by the mertuary prient, who mukes a butut offoring of podding. On the thircy-gixth day is amsill feast is belle and four haskate aro brerab. On that iny the ghosts come to take away ther deenneed to tho Inus of the dend. Sonetimen is seanece is beld at bight to converse with the ghonta, who annwer by whisting. Lifn to the other wortal la exnerly "as in this would, only it gross ban night. Ou the fiftienth day Is a ligg fonst, whith olosed the setiee for onlinary people. The day lefom they bricy the atrius ou which the
 ehief they have \& feas on tha bandredth nights theis. ifter at lapas of time whieh dopents upest smpiles, Dley bold the find colelmution or Night Featival, whinh is one of the great fanotipos in Eddystote. In olden Laya it appeara to bave bea nfien enmbiseil whit the grout hendhuntigg fanas,
W. Croosm. - The Calie nf the Mnther Gaidesmes in Indin.-The enll of then mother gnides is pronsinent Iu Minous, saply Hillonid, Weatarn Anim, and Bahylouian ritual. In Fodie mytholagy golldeneth hold anty second rank, and nome at lanas of the modani Hindu igodduesea seen to bave ariginated nanoug the now-Aryund, who liad at a very early period reached the agricaltural atags. It has heon she helit to durive all
 geddonse-the Juagle Mochers, delled worses, and alenanstal daifies which oausot he


 ancrod martage, and by the blant saceifine, ufien speolaly at male riesimes.


 the part ne Palran, and were knowit ar Phitrouss and Barehs, "ilon skipper and the


 hiehope and others, it whe foent impeserble to dietosiate the two enten, and the fraditionsl story of St Jsans gatharad arotiad iteall many lestarge whioli belonged to the origiand megalitalo worbip.

Puovnisot Cantert Rsad,-Magie aved Soleace.
Rev. E, J, D. Agtlet,-Primidies Apt as a Meane of Pravieal Magie.-
 and Spain, to axamplan Chin appoar tike the first effortr at abilidees. But nowe of the work wan douo for a purely ortistin purpona, or ta grasify the asidetfo neuse. Magle empplied the stimultia to the sertistic instinnt. This explains not anly the drawinge of animals, but aloc suob drawieges for exampie, as those of the Dosciag Woanen it the Cave of Cogal. To primitive sank the imaye of symbel to the aswe thing the the living solor, and what la represented as beivg doue ly fon aynatal if ar though it wete beligg netusaly perforised by the producor of it.

## ExCurgion.

Manbers of the sontion visited the Durchester Musems on the afterboon of Wednaelay, Soptamber 10h, whon they were entertalned at tos by the Carator and Mra: Aeland. They sfterwaride visitod Maumbury Bings, where Mr. C. Pridearix gave a shoat asoonat of the ramitin of the recent explorntions, and the Maiden Castle Enethworks.



Y06

6.i. 5


MM:



## ORIGINAL ARTIOLES.

Ireland. With Plate L .

Ridgeway.
An Irish Docorated, Booketed Bronze Axe. By Professor Sir William Fidgenay, Sc.D., F.B.A.


There nre, of nourse, numerons examplen of broase celto found in Great Britain wish mang or labs pode and eoarse stifempts at decorntion, from the sarly fat oelts and flangod celte widtr lines or obevronat radely puncbed spon them," palatavee with similar ornament or whit the common no-calloil "buckle and tongye" leooration, to the sonketed eolte with their sides adornod with easses reised tha (uever less shan thres) and with consae blob-like dote in which the rilbe nonstines nod, ar which ananatimas form sherrona, or wifh soarsely-formed elreles, and fequently with a ooarne raised line running round jost below the lip of the eooket. $\ddagger$ Oecselenally, as in the case of one of two sooketed oelhe foued togather at Wiokna, Combriagerahire (Eiga. 8 and 9), and in my owu ponession, the dosarnation in oumpored of
 sueks side, on eilher nide of whioh are four raikent lines. The eneket to eneh of these two apecimans is equare with the auglan roandel on the exterio: To this Apeolmes we will presenty have in revert,

Tho Iriah celen, with the exeoption of the early onen made of copper, show a great varioty of aruathent-hamisercd, punched, eggraved, or oast. Sisman of the that


 sombliaticus of clinvrons ard the most, frequant. On the othar head, the aocketed neles as on rale see without ornament, shaugh a fow are aduraed with vito ending lis pellou similar to the Britah examplen jast menionod. Bint to romaril those various devigno an plsoed on the axen-for purely mathetic spasposs would be ludeed raul in viep of the reaties of modern inventigntione lata berbaris art and arinements. In 1003 I gave reasons at the Suathport/ Janetigg of Mie Britah Assonfation for belioviog that jawellery abd every pilier kiad of orthameat arone mot from ieathetic hes from magionl oonsideratonis, in doctriae expanded later In a papar aithted The Drigin of the Twriki Crenemh 5

Ifit a glanee at the Plale will show that the exe the 1 sm show to deserlbe standa on a totally diffurnt plane from any of those jast mentianed. Some aisteen yeare ugo I was nhewn thir nigque upecimen by it alark employed in a sbop as Kingatown, a0, Dublis. He had rooectly bought it at an anction of bousebold effonts at a privats residembe ia that town. it hes therofore bo provougion, although We will presensly ane some reatons for thlakleg that ft may peasibly have been made in sco. Wasimesib. The owner, is rery intelligent man, lided taken the ase to the National Mumum in Dablin and Lud eompared it with the Ane seriee there shows, but bad friled to find snything lifteo it, I told him frnokly that it was a

[^70]valuable spacimas. As be bial a thate for antiquities, anal showed no inetinstion to part with his trassure, I did not press him in do so,

Not Jong afterwarde when paying one of my enstomnty visits to Cason Greenwell is Durhem I teld him of this axe with ite bosutiful chovrois arnament, and asked him if to bad anythiag lifa it in his wouderful colleetion, an I did net rooolloct laving seen anything like is io his ablinet. He wan grostly axaited aut said at once that he band nothing of the kind, alttiongh lie liad a finely-decoratod aneleted velt from Irelaud, whieh I know, and whieh we then both exsmleal, and whiah I here degorite and fgere (Figs Not 6 anil 7). "Don'f misk that uxe uh ney prieo," oried the ohll than, und more than once afterwardf he asked me land I jat aoosmed it. My vipits to Kingatawa cennud nftor 1906, and I loat aight of the axs. But some neven yunn ago the awner vrota to nelk me to look nt mother brooxe objeot which to had lately sequired, aid offerad to nemd mo over ht the name tine the ast, fe cam I wished in have if photogrophed, I glaclly wesepteil his offer, and daly returied hoth apechansa. I heard ne more uatil to May of thla
 to say that her hathand \#an deal noit that nbe winhel to sell this hrouze axe ond
 asomptod, atal the are daly arrived.

The loggts of the mex from the lip of the sucket to the eentrat poime of the




 each of the sidein. It will he teell that the maker made a caraful melome of ornameat tor the whole of its surfuce, dividing it lato Four gomparisents liy meane of
 Itne panalig a lithe bolour the lip of the notket on mank ot the two siden and on

 formed lave uas alogsat leaf-liko contont ( Nm, a and 4), the buture of the swa mould fonntrge a kind of midribs. Thu loope is alposest all other oelen art coatnely mouided, but the ertilder who wrought our nimelanit made a' now departure ly triforcatiog the lower part of the leop. Thila omamenteid loop may presenty of ve ue sotise dud towards the proronates of the axe.
 delicate rolief ruming along the top of math sidn (Nod, I' and 2) lownedincoly minder the difliente line ranulng belew the mouth of the aopkat. The drawing of the chimon jattern wie distinofly heiser on one of tho monldes that on the other, shiee ibe pharron friese soen in No, 2 Ir elearly morg skilfoily deswn than that sean in No, 1, The monida were probebly made of stone, as there ars fome complete anil beven half moulde for ossting polstaver or llanged calts with stop ridgee, and one somplete sad oue hat mould for casting socketel celts th the Irish Acendeay's Collection." There is no tixe with anything like thls rised chorron design in the Irieh Natioish Maseasis or the British Mnsenm collections naw eariobed by thai of the late Cenou
 My specimen wny thevefore be regasdod, until a battar turns up, an the eAcif' dienvere of the art of costing brouse axas, and it ooufirnd Canon Grneswall's diohm that

[^71]the beat prodaets of the fromes Age notifieers of Ireland were the noss Leautiful with which be was nequaister),

I bave slrculy meotloned that Canon Greepvell posaesmed su Lrish socketed axi with elaborate and raflaed deboration. When I ohtainod my sposimen Inst May I Was pravented by Illaesa from going to Lasdon to compare if with examplee in the British Museam. I therefore sent photographa of it to my frimed, Mr. Regiashal A. Bmith, E.S.A., of the Depsetment of Prehistorie Antiquities, sokigg lim if there was anything like if in the National colleotions. Whth bis pefalling kindnens ho promptly replied that while they had nothiug lise it with the olievrou patrern, they bail "an elabornta epresimes from the Graecwell Cullectan (No. 1520), of jabs the
 " pairs on the frees, oval manfli hand loop se In yoar own. If is nelle to be from

"Rashowen, Meath, hut the conaty is probatily Weatmeath." I am esalifed to figuve tais fieo speolisen by the Etadusee of mo frisul, Sir Hereules Read, F.B.A., F.S.A.4 the Kseper of the Department of Preblatorio Antiquitien to wbom I nam alac indelted tor the two photographa here reprodueed (Nos. 6 and 7). It will be notioad that the deentatiou no the Greenwell specimen very closely reseosbles that on my own oelt from Wicken (Fig. B) deseribed aboves, the differencee beiog (1) that the Gresawell syecimea is of far superior work; (2) that the Wioken bas four raised lines on sach side of the eentral spach, whilat the Greaswall exnmple has only three rasd (3) that whoress the llnee on the Greenwell celt are vartienl and pirallel
all she way, the lipes on mine thongh parallel most of the way slant towards the edge anil approximate of the Jower ends, As 1 have observed nhove, the Wieken axe and ite follow have eqpare soeketh, with the eoreere poosedes os the ontaine, whilst tha fineness of the relsed llines or ribe as coupared with the preat majority of those an socketed oolte, eombineil with the aquare soeket may indieste that they must be placed towarls the end of the Brouse A

Th retare to the two Irleh specinens. We gaw that Mr, R, A. Smith pointed ont that not ouly is the Greeitwell apeeimen distinguished by its refiond ernftsmanshlp bat that it is pereticafly ilensties whit mise in its monamements, the ahape of the
 alope that the faw Irish acekered celta with arnamest are of cearse work, ned ithat, therefore, thene twa relia atand quite apart in their taolaniqus, it ia aot unikely that tho mune arvifon-one of those geniaser who make sew deparineen in thair urt ar tralt-wnd the mikem of liotls thee very exeoputional apesimaus. But ne the Gresnwall axe is anid to have boen foond at Rathowen In co. Wastmeati, thare is at lasst some probnhilley that vay speeimet may likewise bave been made in that nrea.

WILLAM RIDGEWAX,
Obstuary,

## Duckworth.

Professor Alexander Macalistors By IT. L. II. Duehuorth, M.A. 85 M. $D_{-}$Su $D_{\text {, }}$

Nown of the death of Profnator Alexander Mecalinter mist have falleu as a

 The magnitule nad variaty of thase powene were almont proverbial mipong his mone istimaie frinule, whane fribute wos riobly joilified by the loug lisi of adilavenents to which shay bould polinte

White the reatiaf of mieh a lise if resorved. for the appoel, mame soliont fostarne slaim notion hero. Manalster ocmmensed hife profentional medical ariadier at the aga of 14. At the age of 16 yeary lie wae appolitend a denconstrator at the Hoyal College of Sngegens of Irelasd, axd a year later be obealied life qualificetion to practise.

His foret pructical demonetradion wast lnve been given in 1860. Theneoforward be parmed his ideal of pimetase lintriction for 69 years, ased as 2ataly as March, 1010, lo was notively enguged in the diancting roots.

 ned tavertebrste soology. In faet, his firat publinhed paper was poeseoted with the nubjeer lent mentloved, while, ss other mrituge tantify, archmology, geology sed Geldbotury made olahing on hia spare momente.

Tue frteadthip of Macalloter nisd tbe late Dr. Samuel Hagphton, a! Trinity College, Drblin, legoin sarly is the "slxties." It constipated an event of signifeance if the earear of the young prictitioner asid anatomisc. Comparable in versatillty to the abbjecs of shis noties, Harghton was (nt tbo time in quention) ksonk interestend in the subject of "animal moelatision" In Maenlister Haughton found aus entbralastio oollesgug, of whom indeed his sppreciation is expressed it the proface to his book on Prinepplos of Antasal Mechanics.

Stress has been laid on thin work, for it Jovolved the dieseation of may ramarksble trammals. Morpover, the musoalar atentomy bf those andenale required apesial and minute tavestigation, and in the acequiaition of the spegimenis, Haughton'a inflence with the authorities of the Zoologienl Garducs at Dublin tungt have beeu of no mall mososei, Additionally, therefore, to hie special atoniles in reference to mechsaism, We flad/that a long seried of memoira on mammsilan sanatany strikes the kaynote of

Mocalister's work for some twenty yeary after hib first appofintiaent as demonstrator: Thus afso was gnibeil the experience and the knowlenge with waich Macklister in later yeard raroly fuiled to point a somment on some ruacelar anomaly in the diseeting ruomi,

In the sune onelier years Marnlistec pablistied twe lapporthat text books no antimet morphology, and theme (Ikee the Texdionk of Inaman Anatomy publishod io


Ahtstavuith Magall bTER
1899) ntill provide many useful Illnatratious ond renoris which are lackizg in more slementary treatises. Of the later, Macalistar coisld aleo the two to his credic.

Aendemic distinctions name in raplit subenajas uluring this pericd. Tbe demonatrasonibilp (at the B.C.8.I.) was Followed by ploction to the Cliair of Zoologr in she University of Doblly. Magnistet hisi entered Trinity College in 1867, and as the timu of bia elestlors to the professorably (1869) bp was still an andergradeate
of the University. Indeed he bad experienged the peonliar eubserasement of finding hireself debarted from eatering for a parilcular examination in which he would have been simaltaseonaly exsminer and anndidste. In 1872 s Chair of Comparasiva Anatomy was fonnded in the University, and after the election of Manalister to this Chair, lita scope sad wiflo were onlargod It wus about this thme that Macallater became Presldnat of the Geologioal Bocicty of Irelnal, his presidential address being deliversed io 1878.

Masalister held the proliasorikip of Comparative Anntomy and Zoology from 1872 antil 1888. In 1877 he adiled to his honours the professorship of Anntonsy and Oairurgery tin the Dnivarsity of Dollian, baing at the tame time Sargeon to fir Patriok Den's Houpital. In 1893 hin partieipatloc lo the tapohing work of the University was broaght to na sid by bls migration to Combridget, on his elootion to Ibe vaeant Chair of Amatomy at that Upivanity.

Ia the thirty-gis yeats that have elapsed since that eleodion, Macalister's uotivities ie the aervioe of hie aceond Ualyersley and College have been matiars of enmmen knowledge to the wide silmie of hls enilosgues, puplis and other friends. Daring thin period sles, Macalinter's leteriat la antiropology beenme more pronannoad. His early pubticatious arn set numerous asd ace widnly sealuared. Fiat is soem fair to claten hire erifleal review of Darwia's Deaveai of Mon (on its appesrasee in 1871) si a matie of the luarasalag alaimit of anthropology, And again is Fan Juring
 of a frogmone in Dublin comploLing an Imperfoel Innoription previoualy known to oxiat is at nollection at Vipman,
 lapronsed by the rich sollerian of boman skeletobe In the Anatony Sthool. He

 of the oollnctioc offerad fall ssopar for Mnoaliatm'i weil-knowa predilankion for the atedy of varintiona. Svidenee of the teadeacy hae raraly lomi nbsent from his
 Boyle Lociare at Oxford in 1834, Latge as tian number of uposimenk mighe bet
 sw the original toral Increased fourfold during hil teniure of ofloge. Wbat Macalistar lans pailizhed givet bet a purtal indiention of bis indefesigablo indestry, to whinh a
 nail noton supplementad by neenbers of olaborate drawing.
 s member of the Coancil, and in 1893 ho saceeded Tylor tie the Ironidential chntr. His nuldrone (1894) mind thas disiverser hy him es Presilent of Suetion \& (at them Edinhurgh mastigg of tbe Bribinh Assochation) in 1892 revenl a ehnocteristie breadth of piew. Thin gquslity may well lave proved a factor in determingug his diatike of dogmatiam, a dislike whith seemed to lnerease rith the taper of tines, eo thas of late he had publiblosl adither opintons ous rasent moenentuas discoverles ber aridichann of memperts which are still niatters of enniroversy.

In rederenes to Egyptology, the long series of Egyptian bouset colleated mitaly by Maualister and representative of several distinot oppeles in Egyptian histary, calle fos spocial mention, though, as remarked above, banay reables of bis iunded huve never beeu publiahed. Hie pibliched wock of sit Egyptologioal and of an archsoological nature will be found in the Pronesulings of the Sociely of Biblian Archseology. Cognate anbjecta he deslt with in artielet rentributed to Dr. Hestings' Encyelopedia of Religing aud Ethice and the Dietionary of the Dible. These ticles Liemselres narve to reanll Maeslister's unremitting labours in the canse of
religian. It woult he inappoppriste to enlargo ou this thome here. But evan in the briefent skotch a passing referauce is cluimed by activities and serviea of wbieh very fow realised the full mensure.

Lack of spade makes it impossible to do more than mention the eonnexion of Mscalister wish the Journal of Anainmy and Pagvialogy (now the Journol of Anatomy). Himself in ountributor to the firs nuaber of that joursal (1867), he was for a time the oblet adting editar, and the perioil in question is marked by the inereneed sive of the journal and the ebondance of its illuserationa.

Maballetar possesned a mabuml tignity of pom and speech, commanding at oneo respect and ounfidenees. In any attempt to recall bia influogec as a teseber, romipdora mast be added of his admimble acoesmilitity, his marretloun manory for froes and namas, his ready nympalby ind his nefalling alkerity in probing a tethoniond diffealty to flee sors. In the minds of sudents these qualitios quiekly developed those sencimenis of anchusisum and davotion whiah qobstitute not the least signiffisact of monapings. From his stele, sympathy extensed oqually to bla collanguen ou the tanching staff, who will really achnowlealyn an ladulgeice apt to be narrias to fquita extraendlanry laigths.

Hobusi fo constitution ind energotle in tempernment, Maralinter esjoynod great powers of plysical endorance, Hils sulebrated waik from London to Cambridge whe secomplished in little mont thas iwalve hasis, and (for time and diatanes at loant)
 voyngea had no terrora for lian, and ha had too prioolone gitt of foeling as uomforiable in a suall tramp otamer an on the lergent liaef. Shesarally Impuriurballe, he umald pine silperiot oves to the resimblute of quarantive fo an open Tirkidh seaport ("I took the oppertnnity of sequiring the aet of sall-makloge." be sald),

Of late yeurs, howaves, be bad nadertaken so extended tonnt, thoggh long
 Bue fu the whuter of 1917-16 aerere attanks of Inflanata took their toll. Thny trerí repasied in Pebrnary, 1919, convalaseenoe wat muph prolonged, sol a patiset of Leal resoluta natire might well lave bees tuapied to abositoe work, Macalistor neraggled os, and rennesed bis daties for the last fortnight of the Leot Tesm.

He left Cabilutige tor Dubliog as anon as the vacatiou orrived. It was hoped that ohange and a reat woild losal to sompleth reopevery, sail it fast some improvemeat seems to linve takes plane. Two daye botore the orbies whlah merked the
 Bat this was sot maintained, atid aldbongh hope was atill fuatited for pome meelr, it becamu sevident that the limit of bis etrougth had at las beus reniched. The oul carse on 2nd September 1918.

## Latz or Degnez and Disfikationa.

LLa, D, Edinburgh, Glagow and Mantreal,
M.A. Cambridge : M.D. 1884.
M.D. Dublia, 1876 ; D.S.C, (honoris carmex), 1892 ; M.Bn, 1871 ; B.A., $18 \% 1$.
L.R.C.P. Ireland, 1862 ; L.B.C.S. Ireland, 1861.
L.M. Rotunda Hospital, Dubilo, 1862.
F.R.S.4 1881 (Couneil 1894-5); How. P.B.S. Edinburgh, 191 /.

Fallow of St. John's Collogna, Camberidgo.
F.S.A. Member of Seante B.U. Irelood, and Uniyorsity of Dablin.

Momber and for nome time Secretary of the Royal Irish Acndemy.
Corresponaling Memher Soc. Rom. d'Antliropologie.

| Do. | do. |
| :--- | :--- |
| Do. | Serlinar Anthropologisohe Gesellschafl. |
| do. |  |

Peblished Works.
Tiese include an Introduction to Auinal Morphology, Morpiology of Verlebrate Animais, Evofudion is Charch Fistory, il Tert-Book of Hammen Anatumy, Mrmoier of James Maertriny, and contribntlone to inany selentife jouronis.

W, L. H. DUCKWORTH.

New Mextco: Follclore.
mothans and Ohildren at Zuй1, New Mexieon Ry Elsio Clricn 86 Ressons.

It ZaEil girla are mare desimble than beys, und it is wifh rolnatione that a muin of the beasebold will be bummoned to balp at childufril-axcept it na enargency



 to be hora, ned the wamen prowne will wiy to tho expectant inethor, "Das't aleef " if yoir will have a boy."
 the delivery will he ansy. $\ddagger$ The labour will be loard If, dating her progiunog, tha
 lack." While tha andstact is unasagiog the hidomen sha will fael the top of ber pationt's Leud-if will get hot whas the time of deifivery is at lasad. When bie placenta in retarded, the womnit will be alapped on the lowar puesk of the baek with


At ouco sttor tha bierth, aboy is sprablex no the penis with owld water thas tha parte masy be tmall, and is girl heer planed ovar hee Fulva a goand eap, that tha paria may he larga. Thane requinamante In playmoal proporting are dintiootively ferainine, be caen will nay 6 womes, "Why ito gon want he smelt and yourmelyed large P" After the habyre host nedue bath he or nhe wilt he mathecl ull sover with oflies to kuep the body depiloint foe Lifo. Itair ou houly or laee is diblikol. Yol
 tan wish she square indi it ensat twosxers be carrien aboat tor thit serviee.

[^72]During aight dayy ${ }^{\text {P }}$ the mother lies in on a thrae-inch bed of hot asod, quilt arr blankat over the sand. A like bed is maiep for the beby, A box is placed back of his hesd to huth the oover off his face. Before placing the box it is rappad smurtly ont the ground, rapped north, West, fonith, nal esah, that therenfter the ohild inay be fualuentlve to moises-an inatance of the frosulative magia to which the Zanif are mughi whletend. $\dagger$ The hand of the baby is to the weot, if It in lanpornant for the mother to lie on her atomach; should she lie an ber back the mille would sigk back into haer body. It is iaporisut, too, for her to keap Arinking hot neidat brow, "that nill the blood will canse pat," and nowe he laft "po muke auother bnhy," A baly thas unde woold La small mod siekly. Vor the aame reseon there is an rute or diginalinetlon Agmant baving interocurse ontil the flow has bosed.

Tha inghar's hat drimkn have toan paspared liy the bahy's patermal greadmiother, his soowa. She, too, has kopt the sand-hed, hot, as well st the stoan
 returs fow thasa savicoss an wooks will receive inone and broal nad be'paluke, whent neal sankel In eors hank Out the mowing of the eigbth disy, hatore suatag, at
 Tha grandmishier sprinkles meni out the gronsed asd praysp-

$S_{\mathrm{un}}^{\mathrm{an}}$ here tan your daby (prayoe word) lake out you road,fmished neanananilableky'nua,
good thimpo get



 "to mate it oume ulive ${ }^{2}$ (temmelkycuaige= board, give heert), snd to proulude it
 it unad for nestaer cloild, the child moutd die.


[^73]hoart in in the house will retura and bold the baby, and in four daye the baby will dia. I was whld the stary of just such sis ocearrence. Recently a woman who had left bar thaby nlone reentered the rooin, and the baly was nowheres to be soen. Sho senehed everymhere in vais. She went to inquire of belghboarn, On lier retarn she found the faby whare the liad left It. In four deys the buly died. If a bahy han to be left alone, an ear of enrn, the kimi of car which is flattened asd quavi-branchiag af the rip. ${ }^{*}$ aboald be left alongeide,

If a baby has a raah, if li tue is the foet that leofore his hith ble mothar testod the beat of har own oven by spriakling bran is it. To oure the rasb, tha nanther will seak zome bran in water nad rub is over the baby. Sores ou a baby ssey to doe io bis motber stepping hefore hin birth on an ataill. To ours halavaiys (ante on lody), the mothor will osrry the child four timen aaroan an muthill-ma araal is Zatif thought, Itee nove Man. But if this freatment fail a mediaine-man from the Ant Soclesy Fill be lovifed to the ohild'h homer There for foar nighte be will sat up a ground alfar and eagogy te the rite of brashing the anta bak of the patiant's boly inte than elrole of meal on tho slat. In ose sam dencrthed to me the lirust ( $p$ mas) whe seen to be full of pobbles sod ants, and than lishy dld loiloed renover.


In suother instanee I liesind of, the baby'a noren looked like the npoth of paint on the mask hia mother is har pragranayy lind seen wogn by bis fathor. To oure the beby they pot paint off it, and at the same time on the maks. Disfiguremens It the laby may be sained bofors his birth by bis fother takigg port if is makgol dance. The mank is sald to te copied (feligashkya) in the baby. Thes the fother will pat on his mask and dences ned swont trom bly body will be rulbed on tha baby, $\uparrow$ Sweat from a horse will be roblend on a buby it it arise as it is poin, for the pain may buve bena onused by the lather beatiug ble horsen. If the batoy erfen s great isen, it is liecause ble father anag a great deal befora be wns born, and for such eryligg there fa no reinedy. One diny we had for dinner an unoxpmesed motion
 Goates. "I had dorgetem about is. Last summet hit baby whe very giak, sad they thongot it might te beenase the fatbert had gat druak before ibe baby wha borin.

[^74]"So they wauted to mb some whiskey on the baby, I happened to bere a botale
" of Virginia Dare wine and I rate is to them," The baly land died."
This baly, llke othess, died unmaed. Not until a child to areephigg about does it got a uame. They put of the naming aatil thers is coupprative certalaty of living, for shoold a liaby have is anme and dies, they mont raent the anom, amil "it would make them feol worne." Thee elalld will be uamed by some sealor io the fomily-named, partapss, for a relative long tince dead. They would not glve the neme of a tifing pantion or of one recently dasd alous whome "they Fitl fool had." Ia this instabue, af in othare, it is pluto that steer the net morming of four days the doad nos pat nat of mind ad thorenghly st pasaible.

The luby that line bsen harn at full moon has a good prospeat of hanich and long Illo; born un the new mans wr om the waning moas his prospents aro poors. The than for igitinfion inte the seoret sociotier le sal in Jaunury noil Pelirangy at the full monos, lemuas heligg initioted is like being bopn-a point of riew familint is athar comminalelen.
 (soraalled ralu priest) to nome as oblld. The shiwunai (in unae of a boy a man

 for paiting anything ou the torobead. There one bo litelo doube that thir rite han boal borrowed from the twatas, the Catholite prien, by the astimanact In tha sammeteriatieality Paeblo rite of wrablogs, the whole bead in washed. Aonording to ba aged womai tuformant, peaple stopped golog to the ahurch for baptisem vama
 dien bow prioats, these nfiet guardian of the proprintles aveu when borrowed, anil nurned bar baly. Four dnyn later mather and haby dimi. Thif an trighteked the pmople that thay stopped golugf to gharoh.

 to the trout roon, sud onadles wll be lit and prayen inld. The woonus will sanet yeaky-Greathe in from the sontir, i,f., the rill draw as brentli four times from her own elnapel hanils while feellog abe bo acquiriog virtoe from the akiat. Yown in a rise of virino getting or forime geting prsotised to coinectiont mist ang futich art obfeer posasimed of fotiohiatio qualliy.

Again, bo eonure meenss widh the soming olitld a woman misy ha given a wita (baby) of doll maile up as a Aoko of masiced impersonsilion. She will receive it from a hoke during en dnee $f$. Alfer the birth of the child the wiba is raformed to so the "heart" of the child, and for nalther love soe monay aill the mother part

 bodiper-"then moint diadri-usd masy dashes anoug tomulan had folluesti. A tew yenrs befors, the


 a ceromonial bowi below. Thie wis interngetat an an umen (twiana) of the miaforthen that fallownd.


 Kerisots of Coobsti. (MS, to be publidest se a Memote of the Amerion Anthropologiosl Asandation in 101D. Og to the ast of carn piven to a mopld be mother ly the deudused alya. (Persors, R.C.: "Note on Zufli," II, 175-Nem, Absir, Amhn Asnan, Vol. IV, Na, 4, 1917),
with this wikn*. It is a kind of life wokent Were it disposed of, "the child it "had brought would ille,"

Aualogounly, is womat who has reoelved prayer-stielics from a shimanni to plant at the phallic sheine on torar yallone $\ddagger$ and wha tharahy guts a chill will shaw nitentlons to the given stimann leat her child die. I board of wne such Buther who was asanetomed in belas food to the axhinonnmi of the South during their eight-lay nimmer retreat to call the raib. As if sle were a ioember of a


 image of a laby, nbe dal not meened in gettiug a ebilld

Apothey sucesas bringing methaid is to fovile to he presente at tha Birth a wnonn who thas had many chlibion sud lost nobsty She wit be sho fiest to plok. up the now-lorn, and ale will blow lata bis manth (pmonal). In esae of o boy,
 father io the Aotikymen of gool satiaty lute whoth all the bayn ure initisted.



The development of tia shitd if promoted ite seversl partienians. That lie tany




 Lide aparyitiag. "Suahes want on bite "-mine mote lisoculative tangio.

Thes a chitd say calk wall and whth tougues, tbe tougne of a numed mockherbird sany lie tois ans and held to the bely to link. The bitd will buse la relewnal in order shat, on it ragalai lea touger mat "talks," the chitd will talk. To the
 the youth ejponki, in additiou 10 his untive lowguage, Karonsh, Jughah, and Hpanish.

To make a child's hair grow long nod thelk, his gisailfaliae ar malo muy puif the moke of native tolineco of bis henalitt Hait enulinge are bariel, Wete they


[^75]of their produser.* Besides, vitchee work ill through aif. At the koko awia (shalaho) eerempoial, when many Nevajo guests are as band, lair brnahes aze serupulowily htaden away. If a haby koops hin fists tight, they wee not prised open to wash, locesuse the dirt be bolds is soid to bo good life aed good fortsae; the bahy who keepu hils patms open will be without fortace,

Tho firat time a boby lf takan oat at night, embers moistenod with wator are rulbed over lif hoart that he may bat be afraid in the darl, Similarly, dampened emben are rabhed over a chilits heart wben be wakes up from a nightuane, and water with smbers in ft is given to him to driek. The first time a baby is taken uny diatance from homa lie mothar would narn her head eson after nhe had left the lanse abd, on fif the beby were not in hor arma bat luelind is the road, she woeld call out, "Comen ynu ara the late bobind these, bat somen, don"t ery," Therenftar, on Ianving home, the hahy will not ory.t Tha firsi time a mpomber of the bonsehold pate the bahy on hear book to carry hiem the beby fe whipped. In the novel giosition he In whigpoil foos thase, wblpped an ble butiocks wlth a ble of yuesh Tha moanro will Jeesp the baly from orylog thereater on being earried. My informant romenbsared how her motaer low said to her whea shen firit picked up a taby alater to bargy on hor twok. "Wath, asid stith," and had goue to gas the yuccas awitah.

Io wathing a latiy's elother, maoh onfa is taken not to drop ang garment-The sbild would have a bad foll. For this.reasou the plothat would pot be luag on a line.
 somothlug to give himis the in satd to be inilogg About him wbes he eneoses. 5

ELSIE CLEWS PARSONE,
Nigerlan Noteg
Thomis.
(iii) Twine. By $N$, W. Thowas:

Over the erventer part of the old Cumerst Prorince of Snathem Nigeria $8 /$
 they aro regurlad ai hagky but at presees our leformation in too trogmentary to permit of any theoriving na to tho meesing of thene contrated setitoder.

In the Jeda skens, whers the Oris soointy proself, twine are killed, and until thie ie done no one tie the village may make a fire or eal. The monare mant latnoest, and no nne will mah the obildren taz attead to disem; it fond is betiag eoeked, the women are not alloved to ans Ic. In a family that forbids twina, the buatand may not nee the ebildrea, repr yet the mather ; old women of the fnamily, aseording to oie sooount, take the shildron awiy, alter bliadfolding the mother, and mufficato them ; blood may not be shed. The ground is parilied with the sariflon of sheep, dogh, and gones for Oria; the mether it purifed with olicksas asi ame, ned a denoctlos of afo ia pat on bor body. Whas a woman shown signs of bearing bwlos, wousin go sad toll ber hoeband, who talln other shlldren of Oria, all the women mes awsy, and obly Ovia peoplo come to the hease; they oloni the loons difve buys away, blindfold the women, and sometimes take awny the phild.

 the Ben Iainnce of Soust Oaroliza.

 gratulmother for mother iyetich, the earth mpernsteral of Laguas, is of falemen. The latier,
 as gantil tham at Lagunn.


 a then I wis go to me joci'

In Unen twint are also forkidden, his nat for Ovia. The woman -suerifiege to her habhand'y father, and the father ioes the anme to his angestors, A woman wha has barge twias mannot anter the townt fur slireo monthe; sha shaves her head before soming lack; if ake bane the twine for the town, her bathod may not ent fond thers. The losabat has to pay money for parifying the town, whilel le doas in the way shrandy deecriboj, A dacoction of afo is triken uad put ippod tha chlldrec'n badies.

The aopesut given of the oright of twine iv as followe: Osn gives a man so and an many ehildivin; if one dien it is born agnin. EAi leadn a child into the world and it io in Elimi stl is comas. If two obildiven play together hefove they are town, ane edi follown the other, sud twibe are bores.

If twine come in a farily that doas not forbid them, whatever le given to the elder mase slas be gives to the youngor, or sace of shens will dies.

Twlim fin ocenaionally of differant soxes, and this is a sign that the wounn wilt
 another, bowovor, twing uppear compuratively weldom in the genoulogien, tat they appeur to Le uot musomanon, In a village sear IComowlnh, one woman bore twizs twisea the firet pasir died, whother from obtural cosanas of nebarwise I wat nasbla to sptermise,

When kefue are bori io Dga a woman is sest to anothst country till thoy goow

 Lake afo round the towa and all ibe wotaon some nut, put nowrias in the oalabakh of $a \%$, and mb themaelven with afo. It the ahidifen tive there is no ceston.

At babongids the elilor is oalled "Odtom," the yopuger "Onaa"; thiey sre counidered fnoky.


 of tith tawit sherifices a gose ned a dog, aed the womas briage oue elalld baok, bavigg "lon" the, otbur sae. Cowries ave gives to the whifl whes ite Erat tooth appeare.

As Kokori if twing are born, ous in thrown awsy in the bagh and the womna goes to anollyer villages.

N, W, THOMAS.

## RWVIEWS.

Ethnography,
Nordensiciud.
Vergleiehonde Ethnogrophische Forsohungen. L. Simo grographisehe und 88 Ethnographische Analivst der materiellen Kultur sweter Indianerstamseer in 00
 Hoksiryekari A.-D. 1918.

Publishad in Swolen, and by a Swedtoh mathor, bot printed in Garmas, thin appears to be the firt rolume of a serins of comparative ethoggraphical researahes. It relates prisenily to the Choroti and Asblanisy, bwo tribes "of the Gran Ohaco, a distriot bxtoudjeg from the Argentise Repubile nortbuand acress a somer of Paraguay into Bolifia, tu intentinat is to trnce the various objeats of the material celture of the infbes in question, with the viaw of secertaining their provesigece and the histury of the culural influsuces which bave from time to time overspread and loft permanets rastith ou the aborigizal peoplas of Sonth America. The method choann is to mark un e oopy of the map of the continens the tribee nonogg which each several item io a part of their living ouiture and the places in which archarolegical lavestigation has found specimens atteating its former prevalance. The outbor, who lise himself travelled in Soush America, rallpe in the first place on bis
own observatioas. He has also consalted all reourds of travel available, sad beyosid that has extimined the coltoetions of material in the varions Swedish manoms, and has sorreaponded or tie sobject with nuthropologiata in Denmark, Hollsad and Germany. The result is a work that, whaterer may bu ith shortoominga, mueh sa he modestly hints at, caunot fall to be of groat vilut to all who wee igterested in the blstory of ealtere.

After a saroful and detailod axaminstion, the author somes to the conelusion that these wilas have received but liute frome Earopmang, baalds the domestio animals tatrodausd by thear in the New Wurli. Thair own native eultare was pour in the axirame. Thoy have boen sultjeetoil to eartain Infinmens from the north and then south of than mantinent. Bee by for the deepees impression made upon thom was by those platob came to them fram the west cver the Asdea, and shinsfy from the kingiom of the Jnuas, the great focus of oulsure in pre-Cohumblan times.

The nathor la aevere on Eughioh iagnirara who shemply do not trouble themelves aboer what has bean written on South Amerion Io other tongues ilusn their awe, and ois the untriutworthinens of the Baklayt Sochty's tranalations. His remurks on the sdoption of new sloments of aulture and on the part plaged by woman gaptnred from other tuthes ara speedolly valuablo.

Air Eingliab trasalation if now (1919) pabliahoal, and of eopy bas beve kiedly probouted to the Fratitets. It 4 short Preface the anthor statar that "oppertanity has
 is is praetioally ilinetteal with the orligiogl.
E. SIDNEY EABTLAND.

## India.

Barboas: Dames.
The Booh of Duarte Nardesa: An Apcoirst of the Cumerien Berdering on the hudian Depon and their InAabilants. Writues by Duarten Beriona, sud oom-
 platad abont the yoar 1578 Lts. Eillted by Maanel Labgrourla Dumis, L.C.S. (ralindi). Vol. If Inotuding the Coasis of Ease Afriea, Aratia, Phovis, sud Fostern India as Far an the Kingdom of: Vyayanagar, Lamdan! Hakfoyi Satiely. 1918.

 and 1516 , was sequaintent with the eotentry and les pooplo, loarnad their langwage, sail whe a ouvefal and ocmputant nbeerver. The uriginel trunslation of this work,
 vertion, sud ne rogards negousios and commeat wes admitielly isouraplute. Mr. Lougworit Dacpes, who lise retranalutad it from the more voireei Portaguent text of 1818, in uni excellent Portugousa, Arable, and Persian mholar, and his widn knowledige of the coniemporary Portaguae litaratore, aud of the blatory, topogropley,
 a ebomentary which in toth intanasting und Jontruetive. To the bigtorion and athnologint the heok in of the highent ralse, beenise it reaorla the experiqnuen of 3 learned asil apopatest obsefver at an axcepstionally iutareatiog period of the relations between India and the westera peens. $\mathrm{M}_{5}$. Longworth Dames has devoted much puttent rosearch to the lientification of the many poets and sitiee viested by the aadear. This was a task of peculisr difficolty, beesuse daring the foer venturins which have passed stine Bartoss wrote, the sea conis bns beea subjaut to many ehangre owing to the allavial deposits left by the great rivers like the Indue shd Nerbadda. Many of the enriy ports have beoome rilted up, and the original wames have been loet. It is popsible that a thorpugh exnusination of 'the eslitar's identificatione by someone possessing apecin! knowledge of the western ecabt of Indis may lead to somic correctlons. But, at any rate, a firm badis has been leid for the work of somes futars reokrabler.

The echeologist will find information on many questiona of intereat-fomule circamainton and pbysicni methods for agearing esntinance in girls; flee tranding of ehildren ; the Amazone of Sokotra; the tribos anil cestes of Gujarith ned the Konkan; the revatment of women; the clash of weatern and anstara enltorses. The suastions on whiob I venturb, whith mueh besitation, to dissunt from the oditep's sonelnsions, art for and eomparatively onimportank. Barliona (Vol. I, J. 117) epetikn of ${ }^{6}$ men of low dagrete who net as mesnengers and go sufoly avery where withat " miolestarian from bay, sven Alaring war or from bighwaymen ; tham men they call "Raseles," It is suggested that the iame reprotonta Pate", A Marithl term oppileed if Weatern Inilin ta the headman of a village. But, on far as I am aware, these peotis naver siaimed or anjoyet the immmity of whiah Earlices npeats. The
 as guardime of tonroyn of morchandise or treanise, wero qwasi-nioronamet, bind
 If they lont thatr liven thalr ghants wara belloved to hasent the mimoreyn, and they wore thas protastel hy a vary sffeutive sanotios. It the imeneuliste sentext Burbeaa
 Bhltels in Rewn KXintha, on the wot conil. Posilily tha tera Pataler used by Barbose ta the resule of a qonfusion botwosin Blafte and Bhatela Brilhmens. Tha
 Tlie abiter interprots Patanery ne Putan $I s A A_{3}$ "Lond's Port," This woald be sh


 Hite of Laketion, the geddess of prosperion Thee stele tbun meane "the luoky" or "festasate" city. In the nnme wiay, the name of the pori of Dia, Drwirith, neet by Batoes, repreagas, but Devisha, "lord ar sombors of the poidens Devi," but Dwipa Srl, "the the ot gond fortuen,"

 In bis seegnd valume be will pas to more imterosthig grousd, the evontry and people of southoris Iudia, of phieh Barbone reesidn much voluable istornution. All abodonts of Indin and its races will angerly loak forwanl to the completion of the wark,
W. CROOKR.

## ANTHROPOLOGIOAL NOTE.

##  Innetrots. <br> (Dnnor indicated is parea(kness.) <br> An Ethu-Geographisal Analysit of the Mairvial Catture of Two Itediase in the Gran Chaco. By Erland Nordenakiold. 218 pp. Many mapa and Illastrationa,

 Goteberg Elandern Bolitryekori Artiebolag Gätehore.Anixoism. By G. W, Gllmors. $7 \frac{1}{2} \times 6 \frac{1}{2}$. 250 pp Marshall Jones Co. 81.75. (The Publiphars.)

Negro Population in the Uvited Statex, 1790-1915, By Dr. Johan Otannings, $12 \times 92.840 \mathrm{pp}$. Govarcment Priating Offica. (Burean of tha Census.)

Introduetory Questions an dfriean Etknology. By Gearge Fousirt. $10 \times 6 \mathrm{l}$. 159 pp . Printing Offine ot the Freach Institute of Oriestal Archeology. (Sultaniek Geographical Saciety.)

Madres Distrint Gusetteers, Solsw. By R. J. Binharde, I.C.S. 2 volis. $10 \times 6$. 328 asd 305 pp . Gordrument Presf, Mairsa, 5 F . $3 d$. and 98 . net. (Tho antbor.)

[^76]








## ORIGINAI ARTIOLES. With Plate M.

## Gulf of Papua: Ethnography,

 Inst, XXXII, 1002, pp, 418, 486; XXXIIt, 1903, p. 125, NLes, 1905, 2), amil in them Weat afe the CFama (ebowt whom prantiently nothing is knowi), wayl beyonil them nee the Korewa (Hiddan. Mas, 1915, 99). Their anlure es a whele is an atmilar to that of the Blema trilias that tbare aus he no dpabt as to their common ofjgh,
 the Iwo grompo."

The maet prominant fentisas of the villogna of the Porari delfa, it tha Gulf of
 waman, sxceps, is line beats ntated, on spenis/ samsiona, but thls pequlfer couthmatiou, Thene enarman suracturen ragag ia length from ibbut 150 to 200 ft , ami are
 gnulnilly from lebised forwards, hut inore inpidly se the froat ied, where it faran- a high-penked projeving gablo, tha apes of whinl may be of bigt at so ft, sbore
 mpport fis lateral prortions. The eveer overneng the law edde walis. The bark


 loug narow ovie unuifly extonds in froat of this. The foont galibe in gonernily dineurated wifh fringeu of aggo-golom leaves, and loag frisgee of the sama, dopendug from the roof, adorti the isternof, The flom it a poor gonatristion of mass or lese





 ${ }^{3 i}$ natar akin of the mago paim, glazed by the blaced of the thetime io frequently "ilraggal over it and by tha onbstans wisiking on is ${ }^{\text {t }}$ ( $\mathrm{F}_{4}$ 60),
 woodes drunt binging tram a poles Dome guch aifo are a nomber of cours with firaoplucen, lesaila whiels the men slemp; they here separated by Dight ecreens of poles aind erost haters out the front of which are tiad aureral ourvei und paluai tablebs.
 seat a soiventionsliaed bumsi foud abd uthet designa, so two being whike;

 frequent, aspecially at the timen of arremonier. In frow of the koe is a hesp of



[^77] suya: "When all is in order they [lummin skuilk] are hugg on pegs all ponid; ao " selentifie collectinu enuld be better kept, I fanoy each man who has killed or H hejpuil to kill a foe has lia peonliar paintiog hill aireving on the sknll " (p. 6I), Is it gratel that the skntly of relatives nee kept in the gerivote homenes

The vait findy-lightei loterion of a nges is extrenely impoessives, stresames depend froid the gratnally lowering root, and on either hand ned the peblets and masks, gaily pointed in red, blatk, and whits. Near the far ond in a seroec, some it or 6 ft , in heighti it is covered with a Pringe of apilt nago lenver, noll athached
 tsanty fore and aft frioures that enantitatn the nole clathlue of the worsur ; these ure troplices of victions.
 soen in double row, op to tan or a dozelif of Inger, hollow, basketwork monstors, (kopinavi), with wille gaplag jawf seal fonr wanden legh, their form varyizg mano-
 deasrated with white fenthers, and a similar oreat suns dowu the back. Bultercarers


 1916, 15-24).
 aud nkalls sre givan to the Aenibtur, it he terne thons. "The siok apply to them "for lasillog, theie friuads prenurtige gition Whan vinhing to figbt, thoy appond



 (p. 60).

Mimay reeinds Itaf, fatore gotug off to Mill wigone, the matil connets the
 If the expedition is to ha sopoeseful, Oni ond otchation the holfon were loft in the annoe till monvinf! they were tben taken to the platorm onteide the rapl, singed
 of islparporm, hud distributed ( 1,179 ).
 whom be bas keilind, bibt a bosutilde may gat bis daughter to boll the vietio's beash, sod be may driak the wator and ont a little ot the hanet provided he is at
 records fhat his luformatit, a homiolds, went fin the evening with a torah in his hand, ealled out the names of the Aopiravi, nad throw the torek on the gronsed; any of the village people coald than bave eonnection with bie wife; he sleps is that ravi ( $\mathrm{pp} .180,181$ ).

I wha informex by H. C. Curdew that the dead bodien of viebliat are Birant inside the hopicrari and left there all wight, while the mew danesd in flae frout pari of the ravi's no one wout to the end where the hopirati were, as thoy wers afrald. Kext taurning the bodies were lirought out and the genitalis of both gexes were nut off, dropped through the flon into the mud below the huilding, and thapen isto the groend with poles. The boiles were eut up with bull-roarere, oooked, and eaism. The brain, stomach, asd other vitcern, and the main blood voseele, were bos entan, hat thrown sway.
A. humas viatim, of eassowary, and is pit have to bo sacrificed wheo a war nanoe is corapleten, sad probably buman belime are sacrificed whisa a pani is buils.

The Rov. J. F. Hotioss foformed the that nuah ravi belonge to a groulp, sad is namad after the anclent foundar. The head ot a groop has anontool over the ravi and over the dreillog-hoisea (maren) of that group. The nopi is the men's house. All the wives and ablldren of a msin live in ond marea ; the hpotand sametimes aloepa' there; thin is now hucoming mare treqnent 'The right and left ceateal poles, ferhape only the first ones, are reapootively male sud female. Totemiem existh, hat ts now breaking op; tha araecdile in a trital "Botom," and hesiden thare are eroup "totems" and fanily or clan "totems." Acoardling to him, the conoption of zmonu ("Alis lifa priciojple") runs taroigh all their religlous. Mabss are inumu, the Aon asom to bo pernmal lawain ; they are probibly sepastral naflata, or, at all avoute,
 reprenent anoustral ghosta, tha tableter mey be (as I saggesod long ago) bypertrophind bulk-ronrars asid have, noen every gradution betwsen thear as to sief, form, and deooration.

 cercmonjul tabletr, maks, and bull-roarers the Aapirwef inay prove to be offigies of apirits who may be regurded nit gods.

It In obvlons that this brief seconnt of the Aopirani culi of the Nameu If very Teperfegh and it is to bo hoped shat thi RoviJ, H. Balmes wil give us it fall
 hese yearn of the iffe in the distrint.

The photogrophen nere taked by my daighter Kadileen (bow Mris. Rishbath), and wo have to thank the Trmatene of the Paroy filulen Atemeried Fuad for mabling tis to vinit this diaspiet.
A. C. HADDON,

## Dewsatition of Phate M.

 in front of the rait, shove whiok ons be see日 four baik! (imsimk hevehid) with
 attuehad to the inds of bambeo pralas ubout 80 feet is longtha, whifl mire opnsmented with orotge loover and the feathers of the eandowsty, parrous, ates. Ther wern kept
 were told, of drixigg avil spiritn out of the raw, of praveeting them from antering ne a preparation far other corembinios (Ootobier, 1914).
 Kairu, a Koriki village, Nauath. The upper fight-hand hoe is ouw in tha Cnobridgo Musenm, the "rriar " was anilhul aupaia and whe sald to reproseut a "fieth."
 shrives, and the sereen fin Prout of the muivaki

Fig. 4,-Kopirasi in Kniztmat ravi, Malpus. A number of bollioarera unn ba seea lying on the tlow in froot of a Amporawis

Fig. 6.-Kophavi from Ukiaravi, a Korikt villaga. Photographed at Port Horesby (of. Anh. Rep., Рapan 1508, p. 38).

Nigerian Notes,
IV. Astronomy. By N. W. Thomez.
(a) brare

Thomas. 92
Deallere in towns and the people of a forest sone sere naturally ineariona abont the stars, for they have no need of them; sod we ueed lrarily feal surprise thut the
negro lask few uamey for heavenly lualies ; sin, moon, marning or evening star, and Orion are insially recognisel ; Jupiter, the Pleindos, ato commanly knownit the Millcy
 the list.

In Beuin Clidy Orion is culloul Agot he is a bsuter with three doga, of whom a rolk tato io tuhl.

Ho is snid in have ar roil hand loonose he ant its this refers to the aolous of the twn phomider starn. Tho Pleiaden are known on Oxoxawibia (the beat abad elhekens), anil the हnime unie is given to the gword of Orlent

The Hyalan lown thelr form are knawn us Agogo (heli) or Egogoepa (two
 (the stac thes bries to trak the kinguhip from the soons), Jopitar is lnown an Ogne (tbe Whekemith).

In the wei season s ounstalletou cellai Tgole le visibles but 1 nevep identifeni If. It whe mid to be the nisve of Ago. The name for a meteor seeme fo be Osug.

 (amaky Otne)



 would he a slgo in the alky. CHa alo, drank, and was menry, aud tbou killel hifreelf by bunging in week later the that Hke a plpe want from aist to wenk.
 bbit le a moakey that ploke cors la the farm. The neond one is a dog following the memkny, and a thisl lo than awner of the dog,

 Jupiter in known as Aptiede (the bisukamidi).

 bunting, and the belt reprosents thens.

A voutaer is cellod Jeogher When is fallis and poed from easi to mass it means



At Uyie Orlos is called Owebielame (the hinter of an animal). The four big sases are fitu hoise poesta. The three stars of the boft are the honter, bis dog, and
 The Oxaxowibie art niso known-

At Ekbe Thion in called Ogolan. The foar lelght atars are his havds and fenis the sword is bis hoily, and she thros. stars of the bett are the lumber, his dog, and the gume. Orion, tim Plalailas, Jupiter, and tie avening ater sems to be the ouly beaverly bodied basides the min whid mocoll whith ane univarailly kedra among the Edo-spenling peoplas. Among the Kakarnku of Idea ihey rell the Milky Way the biliviuips botwgon the wet and lry teasons."

## (b) Sus and Moon.

At the right-hand side uf the Ikpobar rond in Xdo, juat above the reab- hoase, whe a shrive said to bave been establithed by King Reiga, at which the Iwnki
 Avank broght the sin and moon from England. Ono of the abrinen was anled

Alisacan, the sbrine of IIghtning, nod in this were a quantity af larga stone implements.

The various slirines wero arranged as tollows :-


Nimber 2 is a hang of mad at the shatine of the san and moobs. Here, ton,

 aul dolugi corse true.
 greueral axpreselon to nigoify is groat wuicher. On Lhet walt font in front of lin
 moon eame rogethar and then there was wopk for fwalk. Whethar ibis refers is an sellpes or wot I Pre twable to dimover. At any tutej, I whe tald that Ralge
 The nxplaention of the whale moyenonts of the sno was an follows :-

The sua foll fato tibe ses, bat early io tho moming goee ip lute the wast jast when the eooke urow, pases tlke a llanh, maker a neise sevierion, , No one knows what if ia. The ante if the esplanation of slie motione if the mous t the moun to atan up sfter it is foll.

Bebled the varloes abriben mestioned alrody in a poind mild to have liens dug
 knole bafore the alorise, and put elails down for the moon, axid asm wood and chalk for the m un.

This luformation was giveer me by the hesal of the Twakl, who haid not visited the eity of Wido frem the time Lhat he left it in 1897 . He faformed me that bis knowledge isight not be divulged to strungors, ant be toak the utmons procautions to prevent any of the younger Iwaki froen followiog him wben we wers gotng frona the rest bouse throngh the palinale to the alcrius describet. He whe in a sthte of insense exethement at aneing the seene of lige former lahatra, and teard of smotlon etcod ta his eyes.

In 1910 the site was a good deal ovengrown and there were hor stone iempements on the surfaso of the ground, but there were fragments of mitial elther jast beloa the narface or projeeting shove.

The hole said to have been dug by Esige was atill fo existenee, wad a portion of the wall.

In Edo when the people nee the new moon they tske sand nind throw it up nid say, "Gewanse; nuyozer owe Nogbedi; ogalwhi nomo, semiwe; guweha bauki${ }^{4}$ wowame; waluki nogbobine fevere (hare is soap; bake it and wash your ion Oghedi,
[ 181 ]

4 If you are a good mono, blows me ; lat me renkon jot nat a good moon for my "good lack; if you are a bel monn, I rau sway)."
 When the woon lueks Inll they say, "Whi lat agiemi' (the moon line aintured she " playgroniad of his enemies)."

As Hebe they take up elulk for the new mons unt say, "I pive it to yous, "So well for mes, and doctors put a shalk line on their orms.

At Otian they say, "Moon now I ses you, let me lod well nod may man ten ; I " see you go, lot mo get monay.;

At Subongida they say that the boon in a cousing man, who dyen not wank to ser himuelf all at ouss, to be lides hie foou with a dioth sad drawa if bick bit by bit

At Yajo thay may, "Moen son of Ogene," the lireh moin did mat kill men, don't "you K1II me."

## (c) Hanaot,

The ralolion if a graht sake-Ikplame (water ar rain, ankej). It grown up lo

 goes to the sea, and whein rais in goling to fall it risen and mbaki Water from the
 like a lont whein (t in lo the mud on the bink of ske river.

As Okje I whe fold ibay dide nus know what the ralphow was and rais awby
 informat), The ralator be neld to giro people awolied logno

At Sahogida they say that tha ralikow pota poe foot in the sea sod soother fe the Niger, and in ablleil Agndilye. One day a bey took a ealabash to the Nigor and baw Agodiye. He rese sway, buf Agadlye oalled blin laak and sald; "Wbas "Iv you want," ind the hoy and, "Wher," Tlaen be ukked quetion of the boy
 "I don'6 drink with a salabsab, nor vith a basket" fand Agailya asid, "How, then $2^{+"}$ The boy mid, "Wo take n valabiech for watar but strink trom in bonket."
 out abd the boy stld he lind dromk the wator and shownd thia the lastide of the baskent; thilh be did beeatase Agndiyo ie said to give people on aslubiath full to drink and kill them if hagy tait.

At Sogleme they nay that the ralabow Hives in the shy what it donn not gone out. At Ugo the ehildrin siy to oue anviher, "Comes and lopk at the reinkow."

As. G*atd they tay that the ruinbow thrown ap is atose onlled ogusiat, which is red like eime wool. It is fociad in the bush, and the bosh is all rod like a lanp : it makes, a mans rich aud he can nell it for mnob moneg. Thare arn two kindu, one of whith is Exvaie, used to koop away thlowen and to surne peopla with.

## (d) Thutroler.

They ay in Behin that thander is caused by Nhango. In 1908 shunder fell in Ogbe, ins Rhalohos's hoaso f priests of Ishango were enlleil to pour oif oil the ryot bui they coold not find the sfone. The prophet sath that thander fell because sonathing bod beea done whiols Shango forkade.
Thunder is a like a a og philat liken palas oil and a stome (agaaca) comes down witi (it) if ofl in pht lown on the rpot, the stone can be found. If a misu

[^78]Who if not the son of a prlestass finla a stone without pouring oil on it, this is s हign that bu will be burued up with lightaing. They sook afo to wosship Sliaugo, sail ant it with agidi and plantalne dirled Io the aus. A now ntome in kopt in the onabach with the blond of nffering: when fhey take is to the slorine of Slisengo they Biny, "Here now and old Isanga meet."

Thmiler doas not fall where the ron of inagbtae of a priasi or perestass Ilves. When the aky opous they hegin to siog Slinugo'n nong: "Look af us, you nobs, "at the place whare we are, we axpeeis nu danger." This preveais the fien from blowing trees on the sont of Slango,

At Otua they any that H ghtalug is , firn, nat where it falle a stond obmes out of the Ledy. Ligitalog is Hilie is dog or A oeek, and they meet it in the road sometimes. At Stbooghils thay pht out flre and Dgbts during satorm. If they take sa aso from its haudle and put it seder the esves lightning will nus hall. At Jagber they eover listr fuces asal nay, "Oma, Jo net let this kill me,"

At H pen in the Uaital nonatry, ther Jave a bonge if lightaing strikes it Thay und lightolog atoods to make medieline on which natis are takens A perjurer will liai strodk by lightaing.

At Ugo they nag theie are two blals of thisuder ntoues, Ugang, which are long like asvial, and inapon, whioh are big.

## (b) Whiecwiso.

 and ntoalz people and kenjes them in bli banne wiah is gate. Jufan mays, "I will

 masa does not stabl for shree yowt Eaisa wablee the mutb Lead wilh madicias and
 He stratalies bia land ous to a louter's face samethines, and the buater osnint find line way lame.,

N, W, THOMAK.

Antique Soulpture.
Reld Moir.

## A Plebe of Oarved Ohalk from suffolk. By J. तeid Moir,

 of a pleos ot clats of peouliar form foand at Great Glembam, Suffolk, by Mry, Gadborso-Hardy. The deseription which uhen appaared was the result of a careful axamination of this specipess, and dealt salely with ity arulamalogieal sigaifieance. In Nature of Marob 18th fast De. C. W. Audrawn, F.B.8, who has not sean the actral apecinuss undar devesaios, priblished a leteer is which he stated t has the Grat Gienbinil rello if "soching more thasi a somerbat imperfocs batural "eret of e alinushar of the shell of an aminoulte."

De. Andrews lias been grod mough to hiow ine the foar spedianens of shall "plge" in his pososstion, and thers oanwot, I think, be mbeh doabt that, in itf original form, the ploce of chalk from Great GJemhm was the intersal cant of a ohambier of the shall of an ammonito. But lasving said, this, I Tiab to minke is quite cloar that Dr. Andrewa' specimens do not lear any real resemblance to an blephnat of say kibd, nor to the Graat Glemham specimen which bears, in its outllua, a rery marked ressmblance to this auimel. For thle resson, and for others given balow, I diffar from De. Andrewe' viaw of the piepa of ehalk lescribed by me. But it in osly fair to point out that on the occasion of iny recent rinit to Soath Kensington, he stated that he what coacernth solely with the geologieal aspeot of
the question, and diaclamod aby Aesire to exprese on opinion from an arehnological standpoint. Thic hovever, ie a aifferent potstion from that which he took mp in his letter to Nature, whish appeured to imply elemply that he then reinatel Mr. Gathorne-Handy's speciumen, from all atandpoluts, ne of eaticely naturnd orlgin, It is now my purpose to draw furrher attention to the arehacologiont arpects of this ģaextion.

In the firat ploes, It soans eloar tbat the speeimen guilec disonasion fins znfered an apprediable amonat of modification of form* duriag ito poat-abet bistory. The wholk



 gheint nestion of mone nort or htod. Thas for the intarpretaton of these diffariag nurfazen dons oot prement many differaltiea but whan the thisi variaty, C, is regarded it it Heedful to proceoc to a ceroful and ditallal extombatlon. Thls partioular Nhid of enriane It to bo abrerved agou + largo priftion if the Great Glemban apoolmar, und preserte a poouliarly mooth and " obarnetertoes " sppparuines. Thest would seem to ba titue doubs that thim uarface of (he mecimen lo protily the rebult of loug exposure to the nolvent action

 exietonoe by the slow proneseea of batoril salyents.



 and water, ushaifithe quatly ut nurfaet shawn by the evoe C . The reapon for this
 termal " flocky " - (tha frobly-expested urrfacen of broken slaflk bisom yery niearif then

 some dayn. 1 toned, how over, that whan 1 produund, by uerajlug witha rharp-eiggat fhich
 obtalined a surfaee very shatise in $C$.
 tuskloning to whioh I koire it was sahjected. Tlife is slown oven mote elearly fa
 sharp-edghed filat-lanaersed in viuegar and wator, and sabjested, finally, to a silghi rahbing with my fingers. In thise enso, though the apeoiman still benrb, for lta profle - resemblance to that of the hasd of nome suimal, and oxbitien a well-marked "ent" and "oye," the algns of the nernpiag and eatting lisve almost entircly denppeared,

It in fistereathe to find that some of the ente prodacsid by the sharpeedged flitit ateer asbjection to the action of vinegar and water, aufier partial obliterntion, and appoar as laolatad and suparifial "erates" extibitigg a sohuewliss sinuous outlina. Thia is duo, I beliove, to the eolvent effect of the anlul ansing some of the ohalb particles to, as it wrefe, "flow" thto the cuts mid partly Eill tham up. What I rogard as a parteilly-oblitersted ent con be seen st the buek of the "hesd" of ise Great Glemhata sposimed, ant is itlistrsted in Plate B., Fig. 2, of my orighal note til Mas (1919, 2). It is, of course, only the denper puts which shov og fat this way, the leset deep having basome entiruly oblitematel, while those of

[^79] experimantal spenimeus. Such lines as I section ean, I tbink, be recognised upon certain portious of the swituce of tha Greas Glemhan specimes, and I regard this be a fuct of considerable signifionice. The reaemblane of the "tye" In my eroded experimental apecimans io the same featura exhilited by the Great Glembam ralie ia nlso very marked.

The akive eoesilerpatinar Inad mae to vpuclade that Mp. Gathorne-Hardy's
 suppori wheu a compraison is mede of esrain sharnotatietles of thls relie, and some of the drawingn and illasinatons of the innencioth which have been published, Taking first the lefi, lateral atertsat (the illunctions of the parts to whiob I naw reler will be found in Man (19t8, g), Plate B, Figs. 1 to t), it in ne00 that the meristod aren ends somembat uhruptly at its left-hand sides, and she surfase which bonsigsee to the left does so ut a lower havih. The joaction of theme two surfioes is than merked by an "eacmemont" Fbiak simulated the phoulder of a benat. Purther, the eut wbleh is to be seen st the sile of tha hesd, though plaved raches far baok for an oleghsat's ayo, severthelesa gives in zenliatic regres senturion of thie argail. The shape of dis sop of the mamusoth's hnad is purirsyed
 jorilos of the animal Wae domeshapod ratior than bquare- But a driwiag io the
 heai-facai rery aimilar in uppeatinee to that oxfibled by Mr, Gatherne-Bandy's «рpolineen.

 w/th as "ear " which, like the mimmoth'r, in asall. "Tbe "pank" aed tha "fore-foot"


 view that it has benia alighty modibiol by homan ageney. The dorsal eurfuce sppenen to lave alug tune axpenaively moditiod, napotially the eres at the lack of the "head," to which I havie saready drawe astevition As is wall known the main objees of
 earviugs aad drawhage, and la this reepeot the Great Glemham npeciman numparm favourably with many soch raprusumtations. Anil it it sertainly as elophantilike in


 epeciomen whlob oce would think would have bean renaved by man if he has wished to chispe it lato the llkenens of an elephasi. Bet it in as well to remember that a similar eriticisan might be lerelled at the well-known cayring of a borse in the taveru of Fose dit Gawnes, and the hiserelied of a woman at Lansset, while the clay statuatte of the Pemalo bison of The $d^{\prime}$ 'dudenbirt extative opoulier and poentaral hollow io ita right side. 5

IL is thus zuy present opialou that the Greut Gleanhen specimen represents cone of thees objecta whlak, hating a tough uatural reamolianes to an animbl, Was fashioned by ancient mati to make this resemblance more striking. Those who तiloagree with thil opivion must bring torwand apooimena really comparable with the piece of chalk describer by mer, nul be shie to demanstrate that the nature of their

[^80] epecsacas are of maturnl origit inevibithe,

The shject of my original note in Mas whe to give a carvofol description of
 signiffeases, I have now writtem these adilitional aotes with in view to the furtbey olneldations of this prodien. If Dr. dodrawa is able to bring forwari facts demonarating my conclosious to lie mroing, I slath at onse aaknowleige thin to be then whent
J. RICID MOIE.

Central Amoricat Inguistias.
Breton.
Retationships in Central Amerioa. By A. C. Bretom.
In pompllane with a requast for fuethor information respentiog the tarnas
94 of relationship tormerly uned in. Caitral Amaries ${ }^{*}$ and Mexion, the following are nobelthet, with tane betea.

Ther Maxians line if only ppetdal, fuer Molion does not give obe, and to look through tha whole of his long posabulary, proved too great a task. The Masiean hagroage is ituise distiout from shoae of Guatemala.

Tbe only nete arailable at ther momein on the Mayn (or Zengea Thentern, as
 diatiosafy-

A. grandfather ssyc mam to Lim dauphtor's son.

 of the Pokemshi vocaholary, wheo luskiaile sail wives bugai oolloge ounk otbor
 all sodult daughter mometimel adifreness her mother an bifa,
 and Kakolif) and to greil-grent-grandohildes (in Qaielie), whon the old folke may haver been ilenf; then the tarui ase Interolouged, no with mam.

Xikal moom), seld by a woman to her adult brotber po oosiln, (Quidie, Cakehiquet, Poknonchit, in a ensions exproselon. Perlapy the long, shifok bair was
 taing bony with hubins and their other datles.

Afit $=$ old woman or grandumther, siguilias in Pokomohi also the moon or month. In the latter asanse it was osed to rebikon the age of an infant bintil a year old, Aomed rate $f=$ How many old womos has it? Hinsh ratit, gujp radie $=$ one noush, twus The arilinary word for the mone whe po. The moon was connilerel to liave great influnice on women.

The posithoe of wumen smovg the Quilate was sach that the womas was amptioned list in the Fifth Camanandmenti in the queatious of the marrlige services,

[^81]and is the tiss here givea. The use of the terem mother to nunts und other blderralatives may bave been only to fincrense tha leellug of raspect and ravarence for them. The aldeat sikter of a large family did mother the reat. Famillea kept togettuee and became a kind of elab, so that marriage was not thought of evens liy persana of ta Lilaod rolotionablip. A daughter's marrisge wat expressed by : I taka a non-in-law $=$ qui Alotic. A soats marriage by ; I take a daghiter-idolaw me quia awioto.

With regard to the pronameiatian of the apecial jerked, gratural sounds in these languges, is is doubilel if extra leters are of mioh nas. Thay have to be learat orally. The is of cakol is usually written pilh on purs of $p$, hat this le oot the same sound that is readered by the double $\mathrm{o}_{4}$ and tha $A$ and qu ans slog made dintinat by the enrly writarn, although Kiche nud Kedehís sre somstimet wrleme with yw, A peouliar $h$ oomen trually nt the est of a wori, on, in the Pokomehi veeabalary, at the and of a linga,
O. Stoll neome to have besin the fint 'to my what in olivinus-that there laugunger of'Guatemolo ora ubl merg diniects, but distiuct as Spanifly. P'reach, bod Itatisu. Thi tesiporary becondaney of the Quialie bation of the time of tha Spaiala conquent made them promineut, like the Aztect, but to the more outivated Fokonase diey wara larheriano







Bransar de Bourbearg oocvluded tant Queleg "had noseneded to Pokomas ${ }^{4}$ (Poleumold) almosi wherover it is spokne," It meani to have adopteil madh from

 that reay bave lean due to the hoporiatians. Mont of the elamegtary worde diffar betwan the two looganger
 Focarolabs by A. DE Mocisa, 1671.


Greas-grandsin, great-granddaaghter . . . Yeataulll, (or) beicutom
Great-greal-gramdson (or) dunghter . . . Mintontli, (or) taminton
Thy sldee broilbar . . . . . Teacheaul
Thy younger brother . . . . . Telecaulh
Thy elder sister - . . . . Teuetiah. (or) teeimapo
Thy youngee situer
Teien
Bon or daughter of a man's lirother or sister - . Machetl
My lrat (or chiof) wife a . . Pillo
Women say se coneuh $=$ iny son or daughter, and ad $p$ plo $=$ my uephew or sione. Six-lagured, wapll esiquaces,

##  (ARODI 1600).


(Reverontial tern $=$ wother, lady, zu$\rangle$,
 anabhet).
My (man'r) ulder brother and maln mossin . . . Via
Genaral torm for alder larother - - . . Axbea, nisbee
 to give birth (elaolote gaprasiona).
My yaager brothar

- Na olar

Grindfather - . . . . . Maem
Grendesother . . . . . . . Ath, equen

My grethgrouilfasher . . . . . . . Na xiquia masi
 haelmad.
My (woman's) minto brotiar ior toualas . . . Nu albal
My (womain) grandebild $\quad . \quad$. . . VI

Eldar relative by aflinity of a marrial souple (atieles of $V$;abibib buabsed or wife).
Nlece's hushend . . . . . . Vth
Equala to altaity to the wife, or youngee, wifl sech other - Vibalag
My abcentori - . . . . . Vabau su mamtaqae
Tribet, onaneotion $\quad+\quad$. . . - Molab
Roverential, hand to mildam-inaghteri of caciquas - - Que
The com-griadar, term of rnspent - . . . Ab qun

This is an uffertionnte "epithet the of in the othar Pokamobi bowus."
 Vodandary ay Vhuacẫas



##  For Men and Tomen.

|  | $y$ mother | No elar, (or) ehuoly |
| :---: | :---: | :---: |
|  | fatber | - No kahar |
|  | mother of my futher ar mother | - Vatit |
|  | - hatior of my father or mothar | - Natmami |
|  | + mother of my grasdustber | - Ueluneh vasis |
|  | mother of my speadfather | - Vatic, wolsuch un mies |
|  | faiber of my erendfatber |  |
|  | - groat-grout-grandmothar | - Na xiqufo vatit |
|  | grat-gras-grandfather | - Nil xiquin tana |

My naele, father's brother Fashar'e eleet brother . - + Rala a kahar Facher'e younger brothar . . Ohac a kahar My father's elder nister - - . Veab nu ehu, rasab au kaliay My mother's elder kister - - . Yeahais chac, rataie bu oliu

[^82]My mother'e yonager bitater

- Vahar $n$ chu

My methet'e bethar

- Yigna

Siater of father or miother
My aunt (poother), aiater of my granilfather
My uask, cliler sister of my graminnothor
My arnt, younge sictar of my gramimethes
Qraudunother's brothor (1itarnly, way fathee, lirotber of my grandroothor).

Thy graadfacher'm ender loraber -
Thy grnoillether's youngar luvalier
Sinter of my grasdfather -

| My | ton | - |
| :---: | :---: | :---: |
| H | ouly boll | 4 |
| 11 | first-born hón - | * |
| ${ }^{*}$ | Inatharn sup - | * |
| 11 | danghiar | $\dagger$ |
| \% | osly dayghter | * |
| 1 | alduit dugglater | - |
| 1. | Inablorrs ifeughter | * |
| $\stackrel{ }{ }$ | gremalsan | * |
|  | grandlanghter |  |



```
grabi-greal-gruadjaighoner * * N|I кligule masu alls
elder litoller * . * * Viackla, (ov) (t8 [kel
younger brotbac . . . Na obas
nilder alaier . - . - Vannh niacixul
joungor ilatot * * Yimah cling | |0|
uspbe#, nno of lembluor or sistar . Vica!, nlsb
(alno) neploor, son of melo or fomble Vloo, Blab
bo0vis, (and) sos of nophew oc nluce Vioge nlals
aldod, langluter, ns sbave - * Viand alit
e0ngiri, Hun of ungle of numt * . Vizio vachniel slab
```



## Graden of diftity, Man'e Spmen.



# Womaiz' Sperech. 



Great-grandeot and'grent-grandiaughter, the same.
Thind degroa, Ais aiguin vig, saldiag the distinetive purtielos.

 vider.
Steprion àal atepdangotor

- Vilunind

14sLationenimbin Szinca.
The following termin are from a mannesript rocibialary sed granimer of 1770 reoandy fonad to the olty of Guntanalh, and boughe by Mr. C. P. Auwditeb, wha lana presented a photontat sopy to the Illonary of the Pasborly Mosnam at Harriad. This if the fort work known on the lagungo of the Selaces, who wro suppesed to Lave been supplanted in Gustemala by Later lismigrations. According to Mr, M, H. Saville, there are atlll ubout 5,000 of them alogg the Padifte Coast for fiftey mibes, on the southern bonder cavarin Salvadier, sod about the enme diatainga inland. The prieatanathor gives a good grimmar with fall oopjugations of verbs. The vocabulary ooesisio meisly of varhas and mouns, wits mo sumarale. There are Sxinen bamen of severnl towns, an: Txoge for Chigaimula, The pronanotation lias differilitee, and the author inventod some special latturs. He deserimes the It as somewbat Hke the Spaniah, bot with of $\delta$ and tholk, "as it tha meuth were full of salira." "the we dipbthong should be "two parts an ad obe part oc" These two sounds are mulike ang used in the aelghbouring lagguages. The $j$ is pronouneed hard as the Spaninh, or an $h$ in Zonglish.


Sister (gounger) - . . - . gaaejué
The wife (mature woman) . . . ne uxhya
The bushmat (matare man) - - ote antimu
Son . . . . . . . nila (ugsin, my men)
Sou (adult) - . . . . - fami, Bîn
Daughter ~ . . . . . ibya sáa (iaya, formaic)

Mintber-lin-law , $\quad$, $\quad$, nastiy
Son-in-law - . . . . . Hrecogaa
Danghter-in-law . . . . . Payi
Brather oe vister-in-law . . . . praded
Son or buggher by a formes merthge - llagesivi nan
The Cheti voceabalary of 1698 lian only a lew tarmen, Thase are t-

A. C. ARECON.

## REVIEW:

Afrion: Linguiatios.

## Werner.

 E P, Dation © Co, 1610,

Mis Warnen lisif followed up liar former watk on The Language.Famition of



 erolyw

The Intruduotory obapers pives an ncoonat of the aurly listary of Bagtu utudied
 Afrione laugogese familles. (The "semi-Buatis," or "Bnhtold," to toot tome withiar the roope of Miee Weraer'e lieak.) Thin obapter alao vonislak betes un estreas, intonation, and orefograply.

The gyammar in dealt with io elaves olhapters; the exsmplea being taken chiedy from Zahn, Chwais, Heroro, Nyavjh, Swabill, Gands, Olea, sud Kovgo. Thest nufficiantly Indionts the difersity in Busta speech as well ne ite essontial nisity. Twn fual chaptern disela6 vord-balldiog abd phonetic lawh - A4 an apperulle Mbir Wernicr gires some bative rextel in Zula, Herero, Hia, Nyanja, Swnbili (two dialects), and Gandh, with interlinear ned free pransations and copions notos.
 The stafeat working through thin book will finit it a volmhle proliminayy to tha detalled atndy, for aifminiatative of miasionary pofpores, of hay partionatar langunge of ensh, amoth, or sonth-west Africh.

SIDNEY H. RAY.


ROYAL ANTHROPOLOGICAL INSTITUTE,
ge, GREAT RUSSELL STREET, LONDON, W.C. 1
NEW york agests: messis. a. E. stechert $\& \mathrm{C}_{\mathrm{h}}$.


[^0]:     ERAnolyy, 1003-i.

[^1]:    
    
    
    
    
    
    
    
    
    
    
    
    
     +1 ontil direst evidence ia forthpoming to the contraty, that le likewies had jauguage of un artionlate
     "his hind-legs,"

[^2]:    
    
    

[^3]:    
    
    
    
    
    
    
    
    
     Ad fiss, nem mo forth. The term "paychological" is, bowever, illegrtimnts, ns the whject-mattert
     "real" ur "remantio" prodicate woulat bieherter.

[^4]:     stence is the siady of tompantive Rbetoria?
     If agoes orith thoing howeret, in mating a prepositional of adrurblal somplement (rgy, " lle is
    
    
     the peribian of hannul. It woald be tntergitige to Inverigste the riatois why (1) deithic of
    
    
    
    
     ts the base of (3) it woukd not be auppislag it pore egolam 1 kg at the foot of the veoge. If throe out these rwantis as exrmples of vume topics that asil merentiy for leveatigation ilong comparatara lises.

[^5]:    
     wisdiplat, with in bluw on tien gullet).

[^6]:    
    
    
    
    

[^7]:    
    
    

    I Peqjab Nates usd Groerles I, 75.
    \& Sodin 工 80 f.
    11 Bld, L 100.
    F Jown flyy dinter, Dad, XXXIt, 988.
    
    

[^8]:    
    
    
    
    
    Il Cevnst Ropory, Oestral Porinien, 1911, $L_{4}$ 1B8, Gile James Frazer has sollected numerons hatances of the beliet that the suuls of the dead nte, heltevad to aidide its froeuts, The Goldan Dough,
    
    
     Jadio, II, 111, 115; BowSoy Glacetter, XI, 6s

[^9]:    ${ }^{*}$ E. Thusstan : Guated and Tribes of Souctbern Ludian, V1, 16\%.
    
    
    

    - Oervar Reporis Bomale Srath, 1901, I, D05.

[^10]:    ＝Tinustan，盟，ail， $114405 f_{4}$
    
    
    4 Borehay Gisetfeor，XV，Jans i，ILA．
    
    
    
    
    if Broblag Cossifery，TXI， 172
    123

[^11]:    
     151. 104.
    
    5 Nedoaynupile Sarway, Myaver, Part it, "Tha Hagels daste," p. 25,
    | Atharisende, "Ensoreif Bools of the Enat," XLIL, inL.

[^12]:    
    
    
    
     Ytheer : Pavavias, 111 , 19 fit
     Terfied.
    
    
    ** C Grant; Gareter of the Central Presincer, Introd. GXVII.

[^13]:    * Russoll, 识 ctt , IV, 58t.
    $\dagger$ Thunere, of, rit.4, V, 26L.
    
    § Bir Jamen Fraser ; Pakensiaz, V,20.
     $358 f, 341$.

[^14]:    
    
    
    1 In Oitur (is toc exampla, at Fotehow), ornamente cus from "preatoun stonos" (jade ig
     " Ene side of the persous of sdults. Bonc meem to believe that 8 sech a the holpe them to kamp thelt
     of ter Cincae, New Foek, 1857, Yol. 15, j. S24

[^15]:    
    
     $"$ Norch steen
    
    

[^16]:    
    
     gynlockinge a birie of plenty amoog the Chtnose.
    
    

[^17]:     For-Awar, AEs. D, 26) that "The form orfgimated, no doubt, it the matle, at Iral a sal-sbell of gowad."
    
    

[^18]:    
    
    
     being too precisa the range of pitch to the spulten worl boing varlsble and mesely relative.

[^19]:    

[^20]:    
    

    + Bhell are ured for andioins-water athoag the Sin, likewise minogg the zadi,
     rfreamotanes, 1 sm teld, it is the miternal, not ste patemai erinitimother who attende the preasianfor rites.
    
     would bot ksy any prager,
     trantinter "to know nbout ft"
    
    It In Panblo esmomonlels sactosanict thinge are commonly breathed nopa, and firpersomators of
     breashod on. ("uThe Sia," p- 161,)

[^21]:    * An mufasilise wusd. The abesis have a peentlar poesbulary.
     (1916) 240 .
    
    

[^22]:    *Tie bonti mas painted trarquile.
     " saky travellers in a moal."
    
    

[^23]:    " Cpr "Tre Blap" po 10.
     Ferows f.0k (A. O. Faddou, Max, 1918, 9日).
    
    
    

[^24]:    
    
    
    
    
    
    

    + These rulee and rectefctions I have desoribed asd diemshat is Dids-Lore in the old Termesent, Vol. III, pp. 111 squ.

[^25]:    * W. H. B, Hiven + Ther Zowne p. 29.

[^26]:    

[^27]:    * Maggar Lidedo t Dtradsez Ddi-Afrilidas.
    [ 49 ]

[^28]:    

[^29]:    * Moguet Dinsonez dea Sorsiart. po as.
    + Dowet : Mgatery of Whetaiengt pi 92.
    \& Marv : Asthare gualut Atbetm- on 2f1.
    [ 56 ]

[^30]:    
    
     Tu Lenoste, L'Inarafulite, p, suk.
    
    I Eoguot, pp, aR-9.

[^31]:    * De Lanctas Thblear, PF B8, 73t-fil
    
    I Hatshinse : Historicat Rosey, p. hz
    5 Bognal, pe 69.
    if Da Lancre, pp. 130, 219, 404,
    - Itemanar Constrmative, ou 29.
    
    †t Pibaits, 151, pp. 60d, 617.
    If De Lnocres, D. 130 .

[^32]:    - Bogutet D. 78.

    Bolint misu das Dowsut, po get.
    

[^33]:     p. 10.

[^34]:    * FIfy Yeark Aga in Nasp Zenlasa,' Napier. Quoted by Hamevin, Afinerl Arta p. 10.
    + Quoted loy Familton, told

[^35]:    * \#igureri br Haziltin, Maond Art, p. 40n, Yo. I.

    68 ]

[^36]:    

[^37]:     0\% Dreplace.
     plose; to shave the hosid nfth spocial, roferenas to the atyle at colffuse is boyo,
    

[^38]:    *-Scienes, XLVII, p. 482, May 10, 1918.
    [,75]

[^39]:    

[^40]:    * For notes on " Hollisisin [or hadstin], the pallion of the vale, the salrificlat foveler of the Apache," Ne Bourkil. isp. vif, pp. 450-a07 ine.

[^41]:    
    
     " with turge artowhesds in brown and thite, which recalioil the proteresig arrom sightify lonnd "to tho braks of Saili feitales,"
    
    
    

[^42]:    

    + Oja, sit. In. \%
    
    
    
    
    
    

[^43]:    
    
    
    
    
    
    
    
     sperflead; om, for all esampton, Mathew it Lev, vif,
     of Laguna und inlied propiba.t
    
    
    
    
     ตratement
    
    
    
     farcaive)
    
    

[^44]:    

    + $70 \mathrm{CJ}, \mathrm{ib}$. 40
     he iky ( $\mathrm{P}, 41$ ) that "The pateot fericte of thts ondar [the Prikithood of the Hew] differs but "Ifstie form those ut the Rostors. . . Tho srrow-point, wheu plased on the back of the
    
    
     " othen anexpened quartes. Whan plooed 'modar the teat' of belly, it is, through thes sume prover,
     "The eesury."
    \& Otperyed, enil umamunicatel, by Mrs. Persana.
    
    
    

[^45]:    
    
    

[^46]:    
     \#hom taile are of a fope-lite natare as, parhaple, the monkay.
    
    
    

[^47]:    * Formerly a brucgrit of a beablike shape was weel (ride Fig. A), bet this la molely soun riow, anil I ouly haow if outs indege whitoh bas this.

[^48]:    
    
     or chand lis the bellers.

[^49]:     La Prance (Mesumis Oriegres of 1909).

[^50]:    * Aralashayio, Vis, IXIX
    $\ddagger$ VIAnEArspolegia, 1911, p. 7, FYig-2.

[^51]:    
    
    [107 $]$

[^52]:    

[^53]:    * Thas have peon treated at groater Jengilh in toy paper on "Heastanes and Fitichs in Wett
    

[^54]:    * Svetalop The Harinu'a Mrirnor, VoL IV, p. 243, for a note on this.
    $\dagger$ Described by "C, A. G. B," ta The Marlaer'a Mionm, Yoi, IV, p. HI,
    

[^55]:    * Reprofuosd from a mopy of the ociginal, in Dr. A. P. Mnudslay's tmination of Dernal Dias, Vol. 4. This bue loder thas 300 nomes.
    + In a paiume with otbar mamscripta, now in the British MCoseume.
     Boyal Axtluropologioal Iastitzie, Jaswary 1913. The Mentorial han recelved the name of Dodiee Eingibotongh, atter forme- ispotr

[^56]:    
    $\left[\begin{array}{lll}{[180} & \text { I }\end{array}\right.$

[^57]:    
    

    I The Naces of Eavope Landuni 1900.
     The Mtosenm, Oxfind. Biwnetrika, IV, 1905, p. BE1,
    $\$$ Chania Dricursion. Tondon, 196k. Voi, I, p. 232 , note
    
    IT TV, Gremsell: Eritiad Barrsud, Oxford, 1877 . Supp.
     II. Toune 8 , 18tri, p. ICH.

[^58]:    
    

[^59]:    
    
    
    
    
    
    
    
    
    
    
    
    
     in a true coderce-a chanectariaio of early nedi Ofiental murid.

[^60]:    * Jowes, Royat Arlatic Becinty, 1915, Dp, 249-51.
    + Ronus Praty of the Repudtion p. 82.
    $12 \mathrm{M}, \mathrm{p}, 106$.
    
    
    
     plorane on speech, Mast ope intat that gratitude In Iodia is tiausual, or merely deat it is not somsideral right to exproas if in everg-day spooch?

[^61]:     (1 ste mitak).

[^62]:     "uptako," bat "oatiet" and "inlet" are bolt pbyeion. The 南erelopmeat of mosising in "over-
     slos in Buglish peesh, ralhor esprteions.
    
    1 Dartey d'A werilly, Iet Dindérigyst.
     puphls by putting fout the nhonormal, thes the norual allocstion. Ha doer not allade to the uange in Frenta or ItaMan ar point out the obvims side-smenpire,

    II It will be noted that the neljaotive whm proftrad tepded to form a comprend with tha
     "goodrasm." "good follow."

[^63]:    * De Tasem: TaNea de I'Msusdasar, 5. 138.
    
    $\ddagger$ Fotia: Woaderfol Disteveris, B. I
    5 Stinelatr + Eatan's Jyuidhte Warld, Pp. 44, 47.
    
    - Piteakn III, pp. 605, 600, 617. Bpeiling modernised.
    

[^64]:    * Olamvil pti II, pp, $27 \mathrm{~F}_{1}$ 2we
    + Plocelm, 1, per ili, p. 298 ,
    I Spalding Olas Minollany, 1, P5. $01,114$.
    \& Foutainhsll: Dociblets, I, F. 14.
    [ Lawt Meneriais, p. 14 s
    T Iemuins: La Tradition, 1891, V1 Pp. 768-I.
    * Patealm, I, pt IS, D, B2. Bpeiling modernieta.
    

[^65]:    
    
    1 Poces: TViderfell Disuarls.
    
    1 Pltailin, RI, po 905-6, 613. Spaline medernieel
    
    ** Glasin, pt Hi, p. 1as, My.
    

[^66]:    * Fabliahad by permlarion of the Betretary of the Smithocolua Lustitntionc.
    + If it with great pleasare thest the authorg falier this opportuatty to thank the officials of
     pubileh is deserintion of thin anique objoast.

[^67]:    * The author is unfumiliar mith this onatom mmong the Taiuen paiphs, who probably made this
     ure maniloned by Gociass is offioragh.
     and for ofther kithhesees.

[^68]:     fictimile of (B)
    
    I Op. sut, Pate Lexall, a.

[^69]:    * Thistenntal Ocmgreis of lrehisaric Antbropology asd Arolinology.
    $\dagger$ Called by the Euyal Anthropellegeal Isititata.

[^70]:    
    † $2 d_{4}$ 8. 100, Fige 08.
    
    
    [ Rep, Brit. Anoes, 1001 (Bourlport), pi 815.
     Aet, Dablitn ( 1911 , caly pabtished is mumaries), I shourbd thas frym this moerse arcee the arta of
    
    
     well-known Margain (Herver Islusas) adsas derived from the toated fyure of a goi, of Bir Hercales Read, Jhame Raty. Axthn Inut, Val XXI, pp 166-f.

[^71]:     Reg. Frise Aded, Yol, XXXIII, p. nish).

[^72]:    
    
     dedak, but it in tooghed lig ates whe whesta a Wifo.
    
    
    
    
     hand, to heriger mag be thought to have some mejpombility fot Inbeur poins, ased therefom to lin good meribibe againat tefm,
    
    
    
     trested les cargfulg ith-bealthe would befall the womari. The ocoit is bursed uader the brise foor,
    
    
     spputiod to tise suvered cotd to make it beal quigklyi
    \& lobidentali 1 may note that the dye will cowe nf meits moernitit if it pregrant womas kens theme in the makigg In Hike elinumatance biack kjobe will oomerout on bowa for firing.

[^73]:    
    
     "sare ane listbes"
    
    
    
     treltion.
    
     sowimom unape, the motber wat Hing widt them,
    
    
    
    
    
    
    
     of the oorn is planted that the chitd may grow with the ofers. Is carigig the patient's heirt is
    
    
     Lanointora tis. 472.)

[^74]:    
     (mokyopent). When asit le dug from the Bat Lake the ligit avin tils ifs. The Inmp ot malt ts kegt in
    
    
     Ep. 880-8.
     try ont romedies. A suosesfyl rumely la proot of the cause of the siokrens.

[^75]:    
     nid Cailderen as Lagunimy Slew Mestoo."
     by sumbers of the curing coclers. "A perws ives as loceg an his will wante lifm to live nod ot
    
    
    1 The sawn prantires is followed at tagais.
     baptized by the tufafni in the bonan of the nowtw fir. beome his godinother-ns fatarenting an
     litrth practice montiniog with a Oithatig tite.
    
    
    
     zayntilia, emuroienig maska
    
     St as. abe was tobd alopt, I sumber, for the genaral practice

    It Al Jugana wiliow trige are teriated op and put th the witer to what the hatr, font the halr enay be leng like she millawa,

[^76]:    

[^77]:    
    
     p , 219. \& connibarsbie ablunt of general intormativa le to be Emial in the Andsel Deporfo of Britels Naw Guinto

[^78]:     the the soprembe goi.

[^79]:    
    

[^80]:    * Farkyu, B. A. : Prehbetarie ald, Vies 142.
    
    

[^81]:     rond "My flint eoutin on fatber's ride (mother'in shle)."
    
    
    

[^82]:     stol rocopled in $1 T 87$ by F. J. Tirwlo for Bather I. I. Heraiquer, prient of Be Dopiogo, Zncopula.
    

